AM-FM STEREO RECEIVER

KR-A5040

SERVICE MANUAL

KENWOOD

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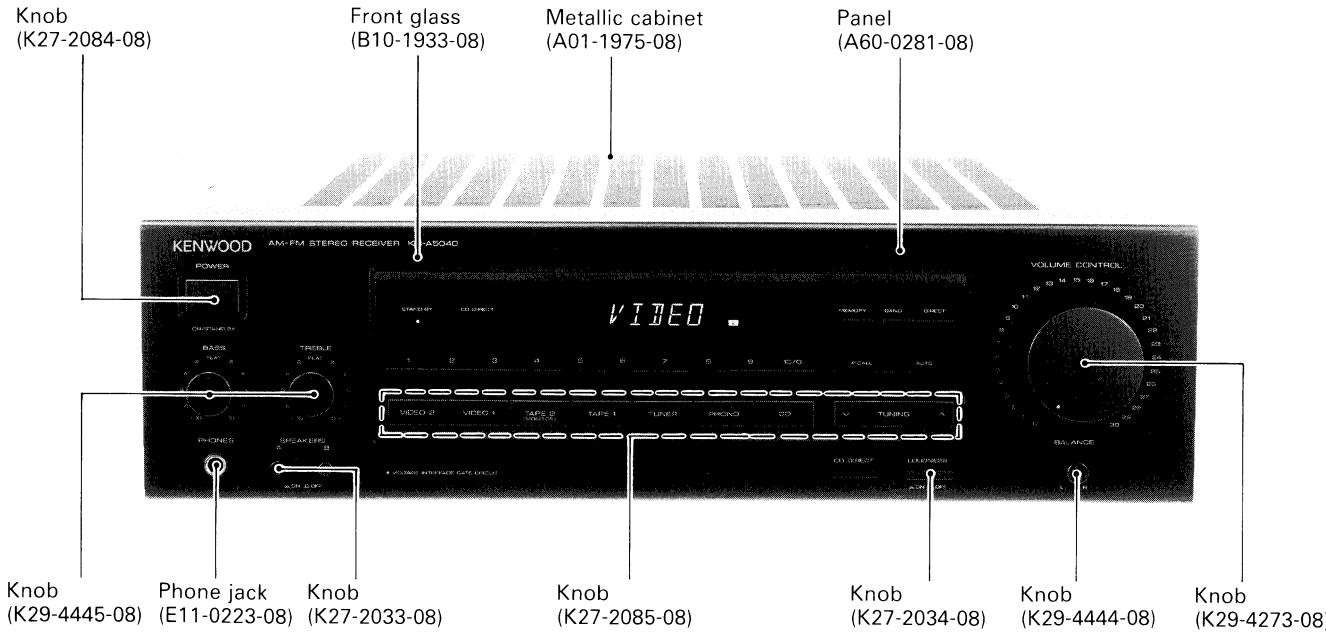

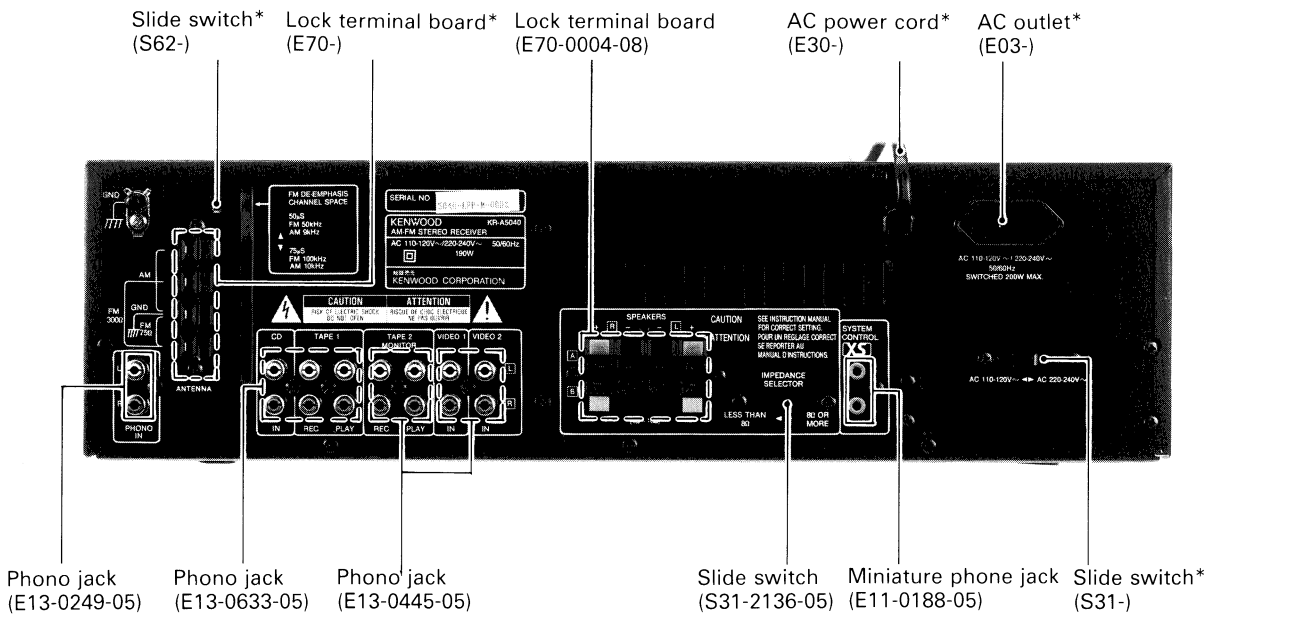

* Refer to parts list on page 24.

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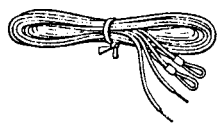
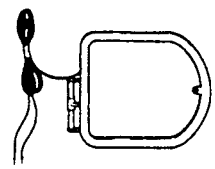
Accessories

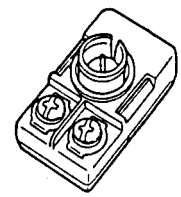
FM indoor antenna 1
(T90-0176-05)



AM loop antenna 1
(T90-0184-08)

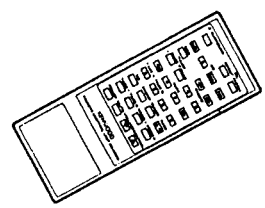


75 Ω/300 Ω
antenna adaptor 1
(T,E type only)
(T90-0185-05)



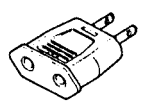
Loop antenna holder 1
(J19-2815-04)

Remote control unit ... 1
(A70-0908-08)

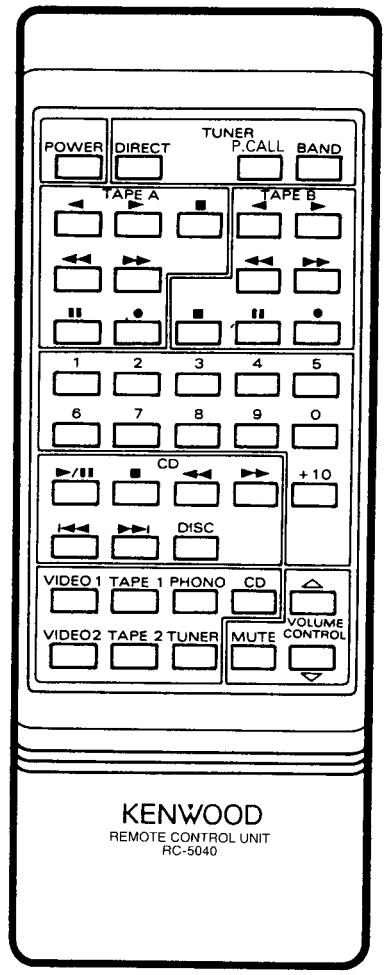


Batteries ("AA" or
"R6") 2

AC plug adaptor 1
(M type only)
(E03-0115-05)



REMOTE CONTROL OPERATION



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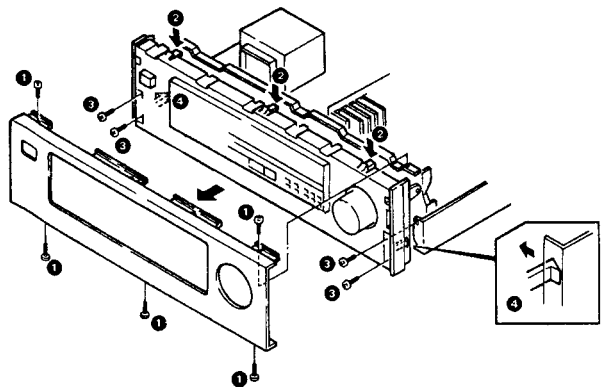
DISASSEMBLY FOR REPAIR

Note: Remove the case before starting.

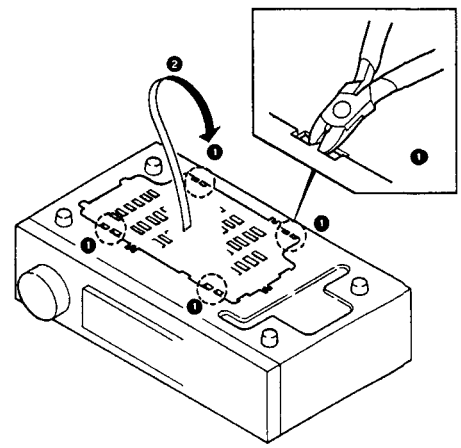
Removing the front panel and sub-panel

1. Remove the five screws ❶ and three claws ❷, then remove the front panel.
2. Remove the four screws ❸ and two claws ❹, then remove the sub-panel.



How to remove the repairing chassis

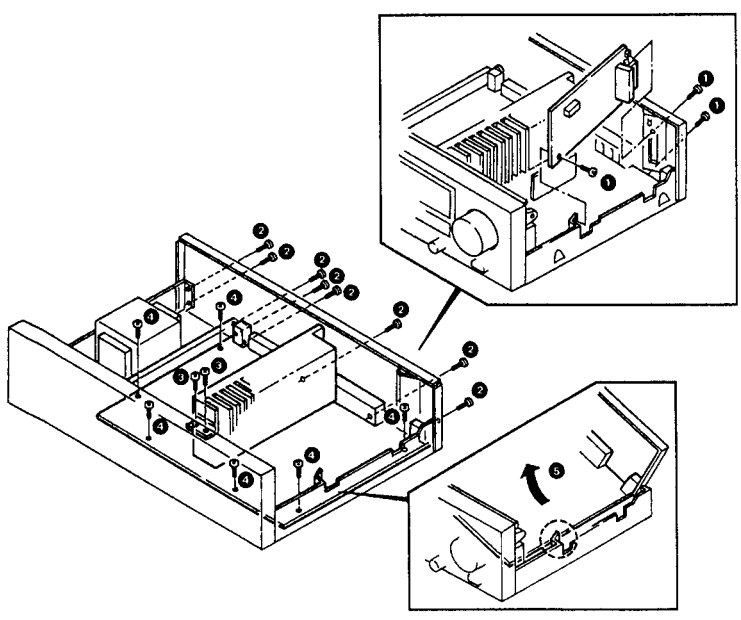
1. Cut the four parts ❶ of the repairing chassis. Remove the repairing chassis from main chassis.



Removing the main PC board

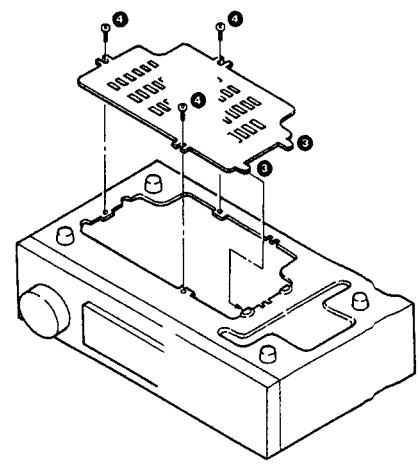
The main PC board can be removed even if the front panel and sub-panel have not been.

1. Remove the three screws ❶.
2. Remove the eight screws ❷.
3. Remove the two screws ❸.
4. Remove the six screws ❹.
5. Remove the main PC board in the direction of arrow ❺.

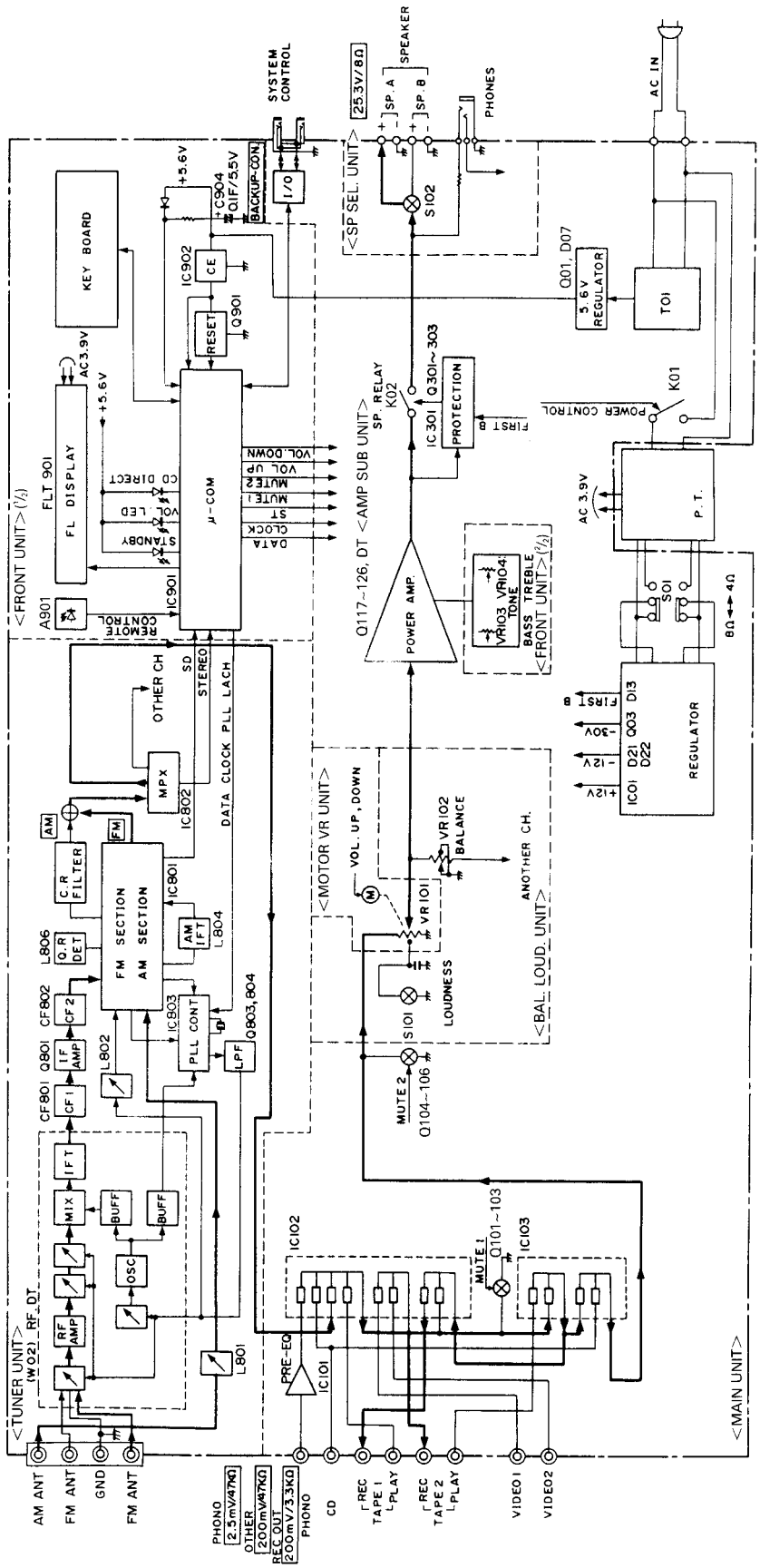


After repair

2. Turn the repairing chassis 180 degrees in the arrow direction ❷.
3. Insert the two claws ❸ into main chassis.
4. Lock to the main chassis by three screws (M3 × 6)❹.



BLOCK DIAGRAM



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CIRCUIT DESCRIPTION

1-1. Initial Setting

1) Function initial setting

Last channel memory ..... FM : 87.5MHz
..... AM (K) : 530kHz
..... AM (E) : 531kHz
Tuning mode ..... Auto
Band FM1
Input selector ..... Tuner
Video monitor ..... VIDEO 1
CD DIRECT ..... OFF
TAPE 2 monitor ..... OFF
Muting ..... OFF
Power ..... OFF

Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)

BAND	FM1		FM2		AM	
ch	K	E	K	E	K	E
1	87.5MHz	87.5MHz	87.5MHz	87.5MHz	530KHz	531KHz
2	89.1	89.1	//	//	630	630
3	90.0	90.0	//	//	990	990
4	92.0	92.0	//	//	1440	1440
5	94.0	94.0	//	//	1610	1602
6	98.0	98.0	//	//	1700*	531
7	100.1	100.1	//	//	530	531
8	102.0	102.0	//	//	530	531
9	106.0	106.0	//	//	530	531
10	108.0	108.0	//	//	530	531

* 1700 kHz is set for WIDE only.

2) Microprocessor output port initial setting

Any figure in ( ) is a pin number.

VOL. LED (18) L
POWER (24) L
MUTE 1 (25) ..... H
MUTE 2 (26) ..... H
CDDL (27) ..... H
VOL. DOWN (1) L
VOL. UP (63) L

The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

1-2. Test Mode Setting

1) Method of entering the test mode

1. While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights.

2) Method of canceling the test mode

1. Unplug the power cord from the AC wall outlet once.
2. Send the reset signal to the RESET pin or some other means to reset the microprocessor.

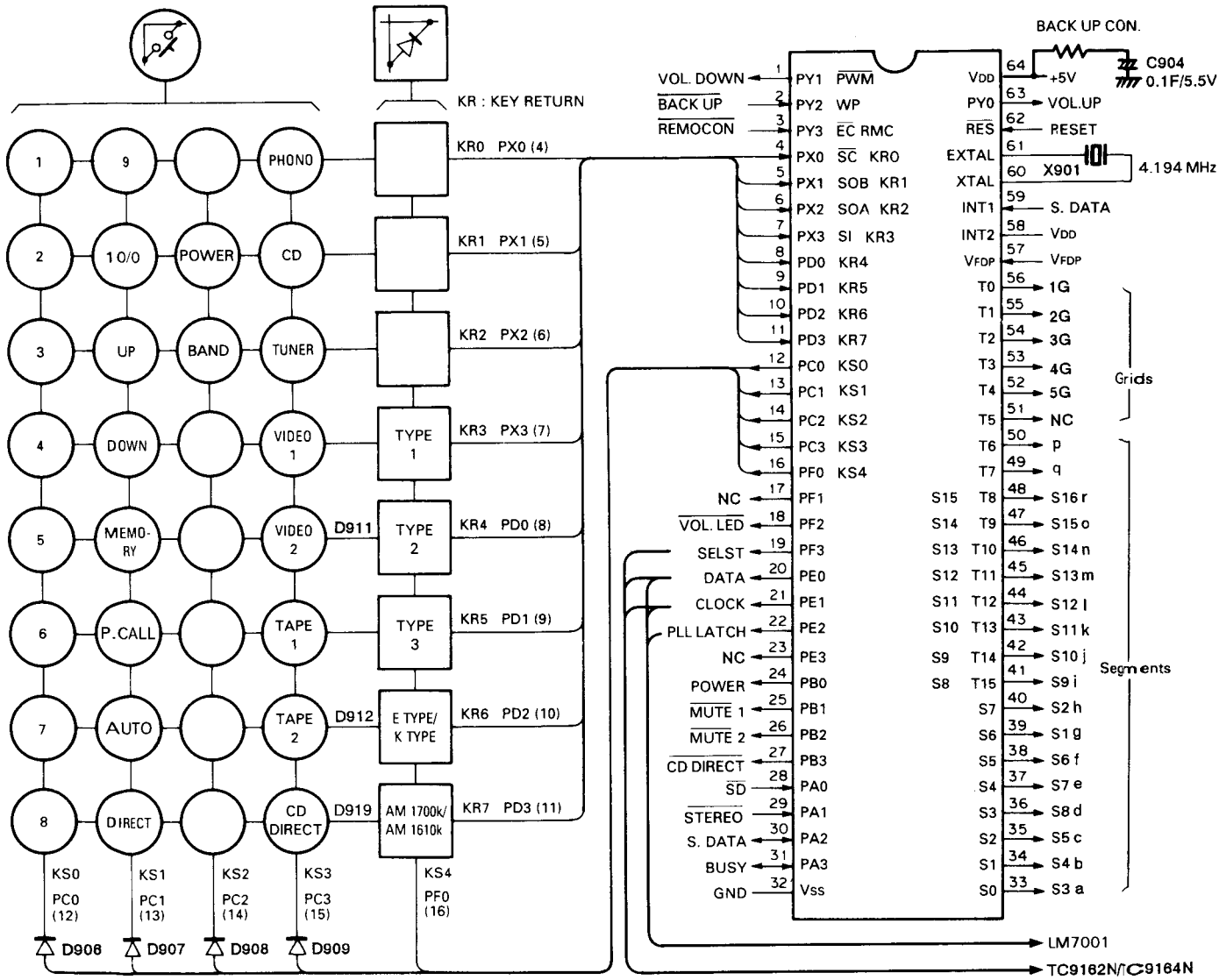
3) Contents of test mode

1. When the test mode is entered, the FL tube display all lights. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
3. The test mode is different from the normal mode in the following operations:
   — When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased. Once one of these keys has been pressed, the operation continues even if the key is released. It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

CIRCUIT DESCRIPTION

2. CXP5016-531S: Receiver microprocessor (FRONT UNIT: IC901)

2-1. Key matrix connections



2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix.
In the following, "1" means "with diodes" and "0 ", "without diodes".

1) Model Set SW

Model set SW			MODEL	Function				
TYPE 1	TYPE 2	TYPE 3		TUNER BAND	DOLBY SURROUND	VOL. CONT with Motor	Switched VIDEO1, 2	REMOCON
0	0	1	KR-V6040 (OTHER)	FM1→FM2→AM	Provided	Provided	Provided	Provided
1	0	1	KR-V6040 (E TYPE)	↑	Not provided	↑	↑	↑
0	1(D911)	0	KR-A5040	↑	↑	↑	Not provided	↑
0	0	0	KR-A4040	FM1, FM2, AM	↑	Not provided	↑	Not provided

CIRCUIT DESCRIPTION

2) Destination set SW: E type/K type (0: Without diode / 1: With diode (D912 or Q902 ON state))

Destination set SW	Destination	BAND	Reception frequency band	Channel space	Reference frequency
0	K	FM	87.5~108.0 MHz	100 kHz	50 kHz
		AM	530~1610 kHz 530~1700 kHz	10 kHz	10 kHz
1	E	FM	87.5~108.0 MHz	50 kHz	50 kHz
		AM	531~1602 kHz	9 kHz	9 kHz

3) Specification set SW: AM1700k/AM1610k

With destination set SW at "0": Effective only for K type

Specification set SW	AM reception frequency band
0	530~1610 kHz
1	530~1700 kHz

(0: Without diode / 1: With diode (D919))

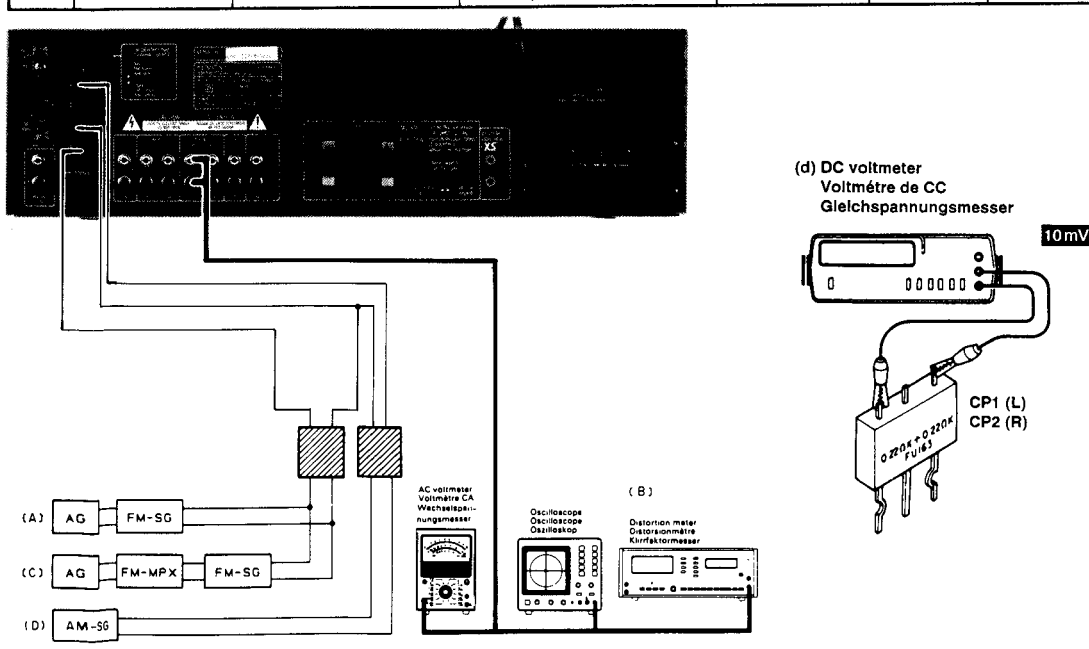
2-3. Pin description

Pin No.	Pin name	I/O	Name	Function
1	PY1	O	VRDOWN	Potentiometer down operation control. High: V down Low: Normal state
2	PY2	I	$\overline{\text{BACKUP}}$	Backup (AC outlet off) detection. High: Normal state Low: AC outlet off When the power is switched on, high is input. When low is input, the microprocessor stops clock generation and enters the backup state. When the signal changes from low to high, the backup state changes to the normal state.
3	RMC	I	$\overline{\text{REMOCON}}$	REMOCON signal input. active Low
4~11	PX0~PX3 PD0~PD3	I	KR0~KR7	KEY RETURN signal input. High There is input. Low: There is no input.
12~16	PC0~PC3 PF0	O	KS0~KS4	KEY SCAN signal output. Normally high is output. Key scan is performed when KEY is ON.
17	PF1	O	—	N.C.
18	PF2	O	$\overline{\text{VOLLED}}$	Volume LED signal output. High: OFF Low: ON
19	PF3	O	SELST	Data latch signal output to TC9162/TC9164. Data is latched on the rising edge.
20	PE0	O	DATA	LM7001 (PLL IC), TC9162/TC9164 (selector IC) control serial data output. Data is latched on the rising edge of the clock.
21	PE1	O	CLOCK	LM7001, TC9162/TC9164 control serial data transfer shift clock output. Data is latched on the rising edge of the clock.
22	PE2	O	PLLLT	CE signal output to LM7001. When the signal is high, LM7001 is enabled.
23	PE3	O	—	N.C.
24	PB0	O	POWER	Power supply circuit relay on/off control. High: ON Low: OFF
25	PB1	O	$\overline{\text{MUTE 1}}$	TAPE 2 REC OUT mute control. High: MUTE OFF Low: MUTE ON
26	PB2	O	$\overline{\text{MUTE 2}}$	LINE OUT mute control. High: MUTE OFF Low: MUTE ON
27	PB3	O	$\overline{\text{CDDL}}$	CD DIRECT LED signal output. High:OFF Low:ON
28	PA0	I	$\overline{\text{SD}}$	Tuner tuned detection. High: NO SIGNAL Low: TUNED
29	PA1	I	$\overline{\text{STEREO}}$	Tuner FM stereo detection. High: MONO Low: Stereo
30	PA2	I/O	SDATA	This pin and serial data pin 59 are shorted.
31	PA3	I/O	BUSY	Serial busy signal input/output.
32	Vss	—	GND	GND.
33~50	S0~S15,T7,T6	O	Sa~So, Sp~Sr	Fluorescent display segment drive signal output.
51	T5	O	—	N.C.
52~56	T4~T0	O	G5~G1	Fluorescent display digit drive signal output.
57	V_{FDP}	—	V_{FDP}	Fluorescent display output driver circuit power supply.
58	INT2	I	—	Unused pin. This pin and GND are shorted.
59	INT1	I	SDATA	This pin and serial data input pin 30 are shorted.
60	XTAL	O	XTAL	Clock generation circuit output.
61	EXTAL	I	EXTAL	Clock generation circuit input.
62	RST	I	$\overline{\text{RESET}}$	Reset signal input.
63	PY0	O	VRUP	Volume up operation control. High: UP Low: Normal state
64	V_{DD}	—	V_{DD}	+5 V power supply.

ADJUSTMENT

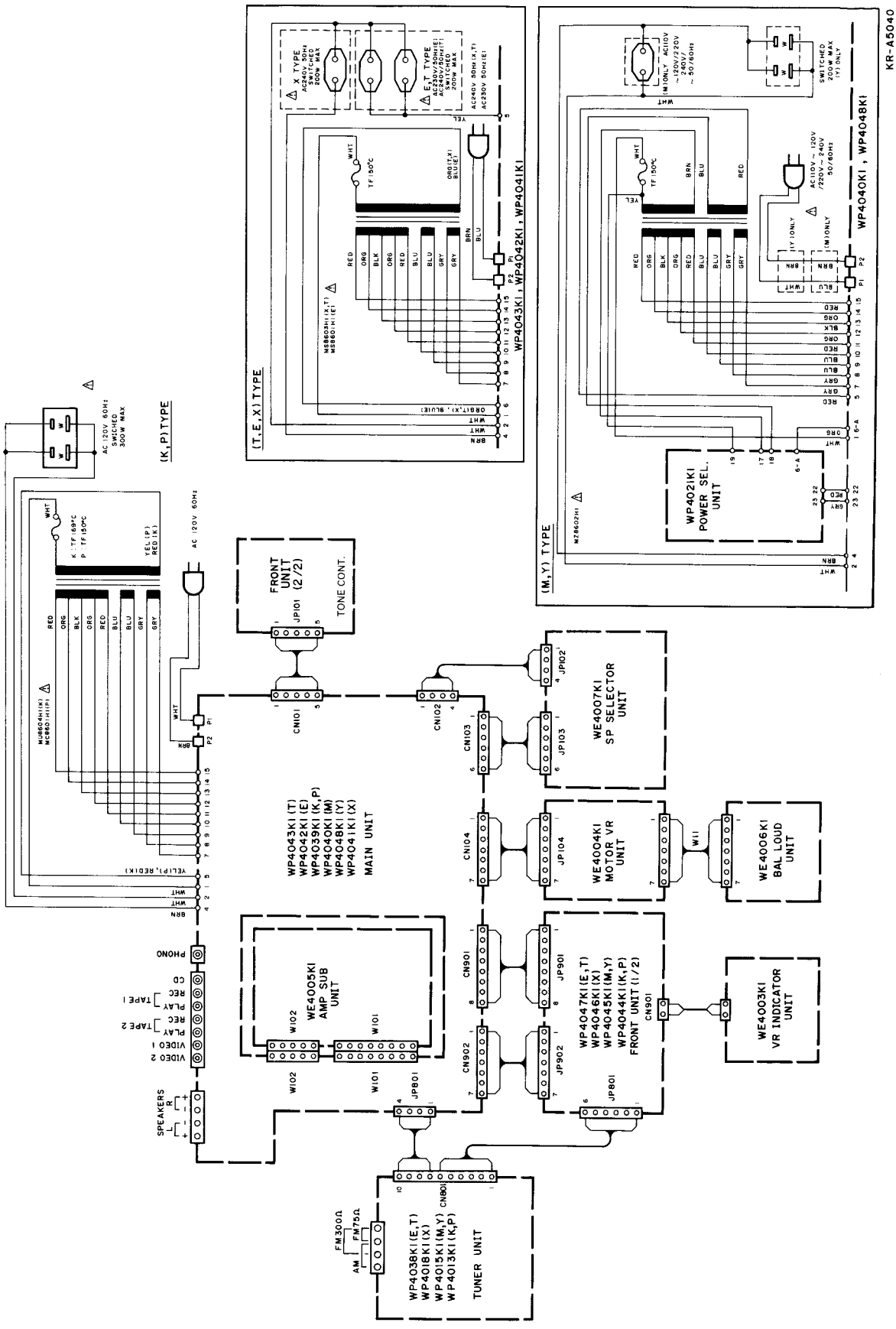
AM.Section: If alignment piont is "-", Confirm the value.
If not,replace the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR: FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75kHz dev. 60dBμ(ANT.input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(ANT.input)	Connect a frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	VR802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev. Selector:L or R Pilot:±6.75kHz dev. 60dBμ(ANT.input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
4	SEPARATION (E,T type only)	(C) 98.0MHz 1kHz,±40kHz dev. Pilot:6kHz dev. Selector:L or R 60dBμ(ANT.input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT.input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901(TUNED)goes on.	
AM SECTION		SELECTOR: AM					
(1)	TUNING LEVEL	(D) 1000(999)kHz 26dBμ(ANT.input)	(B)	-	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901(TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	-	Connect a DC voltmeter across CP1(L) CP2(R) (MAIN UNIT)	Volume:0	VR105(L) VR106(R) (MAIN UNIT)	10mV	(d)



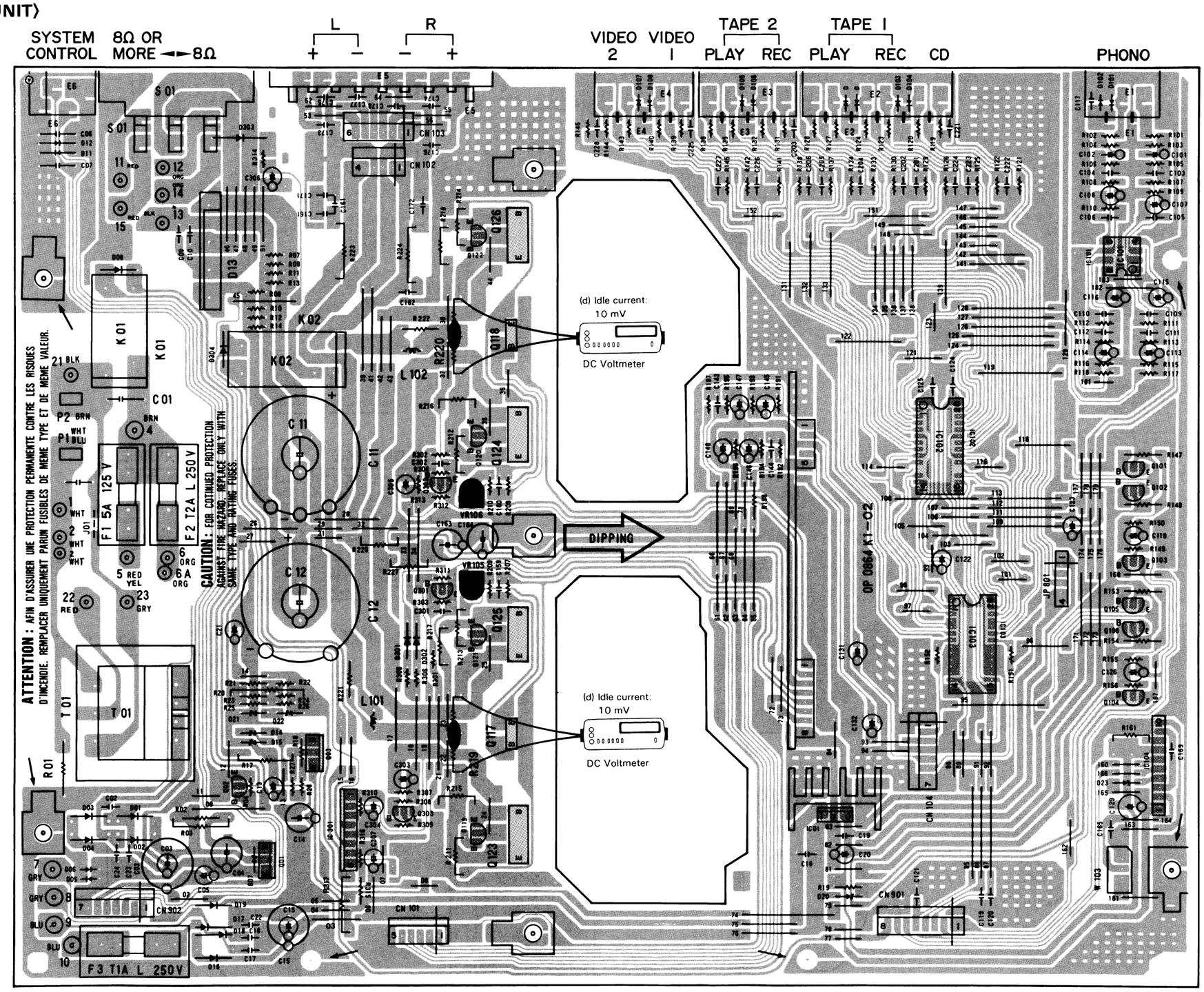
KR-A5040

WIRING DIAGRAM



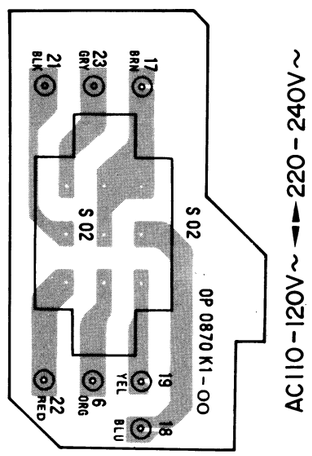
PC BOARD (Component side view)

〈MAIN UNIT〉


SYSTEM CONTROL
8Ω OR MORE ◄► 8Ω
L
R
VIDEO 2
VIDEO 1
TAPE 2 PLAY REC
TAPE 1 PLAY REC
CD
PHONO
(d) Idle current: 10 mV
DC Voltmeter
DIPPING
ATTENTION : AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLES DE MEME TYPE ET DE MEME VALEUR.
CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATING FUSES.
F1 5A 125 V
F2 T2A L 250 V
F3 T1A L 250V
OP 0864 K1-02
OP 0870 K1-00
CN 101
CN 102
CN 103
CN 901
CN 902

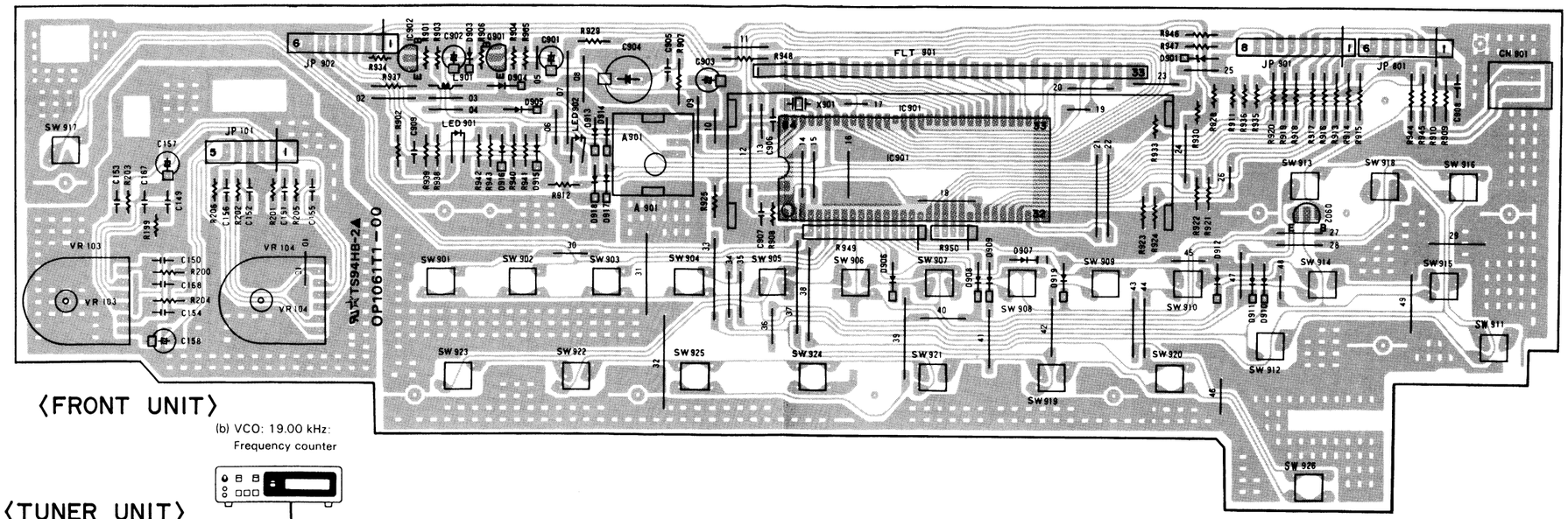
〈MAIN UNIT〉

〈POWER SEL. UNIT〉



Refer to the schematic diagram for the values of resistors and capacitors.

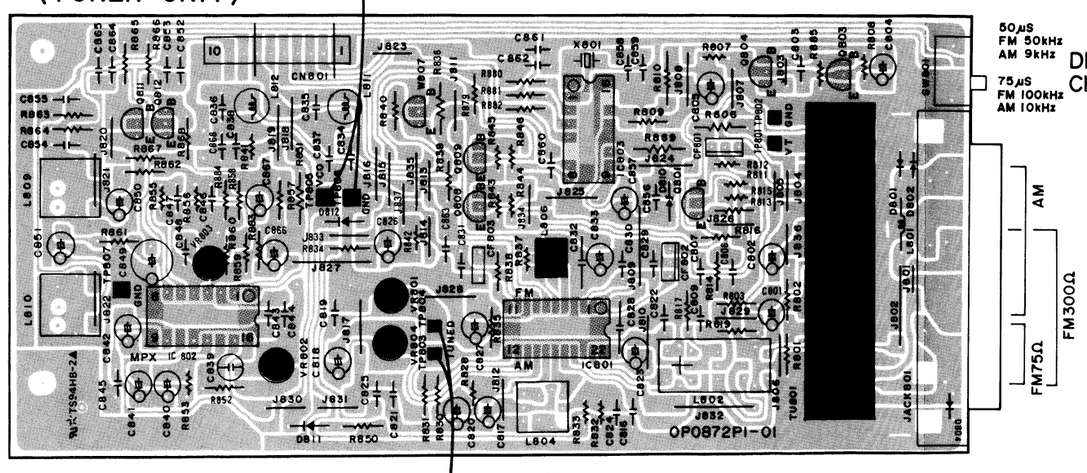
PC BOARD (Component side view)



〈FRONT UNIT〉

(b) VCO: 19.00 kHz:
Frequency counter

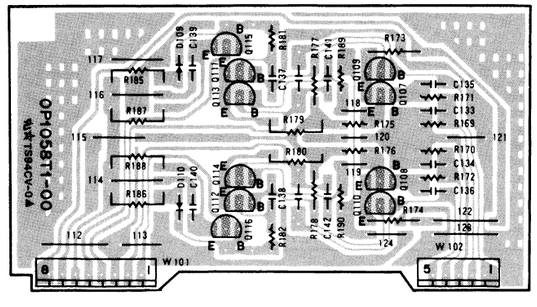
〈TUNER UNIT〉



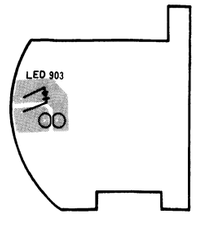
(a) DISCRIMINATOR: 0 V

DC Voltmeter

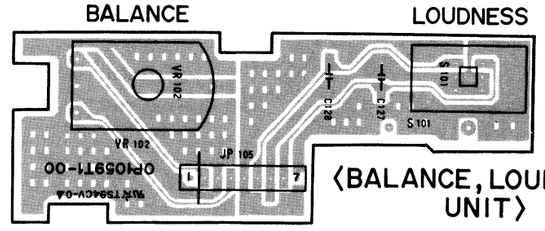
〈AMP SUB UNIT〉



〈VR INDICATOR UNIT〉



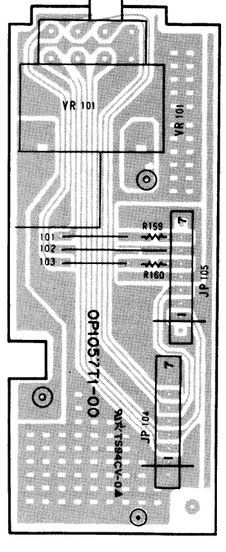
BALANCE LOUDNESS



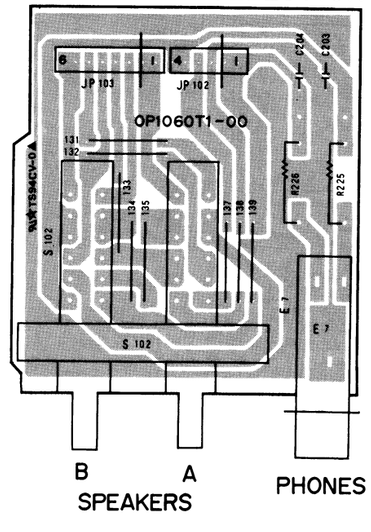
〈BALANCE, LOUDNESS UNIT〉

VOLUME CONTROL

〈MOTOR VR UNIT〉



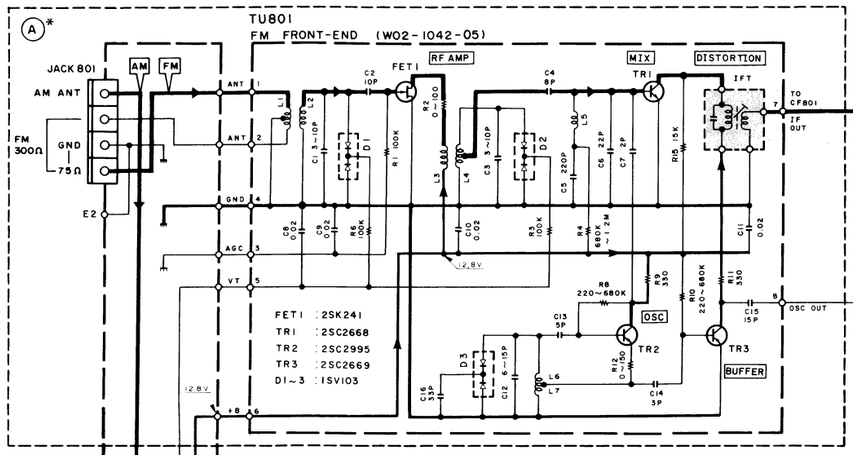
〈SPEAKER SELECTION UNIT〉

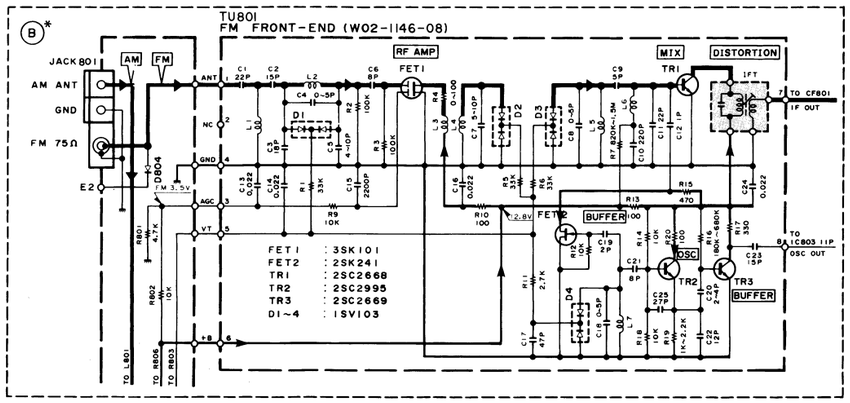


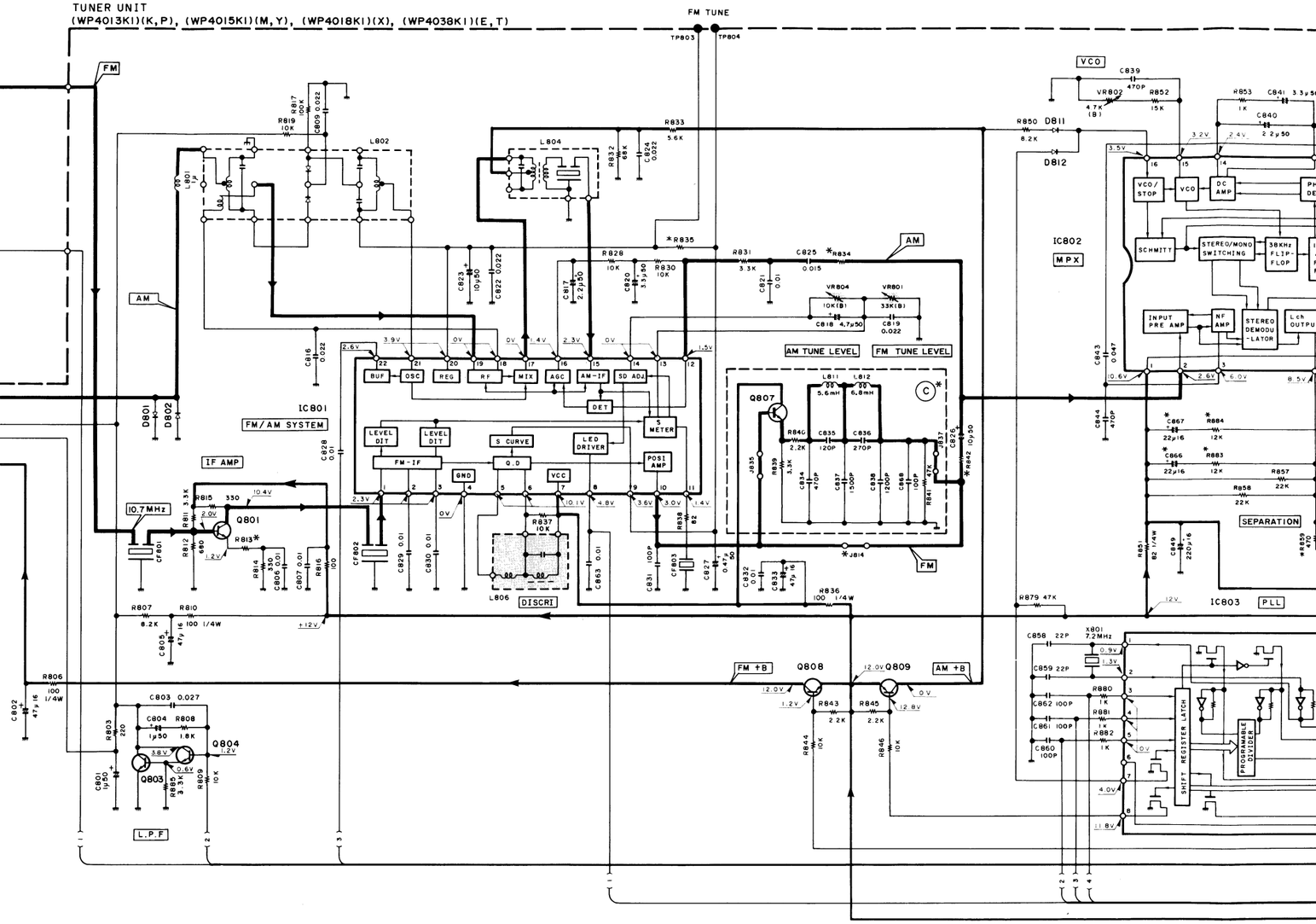
B A
SPEAKERS

PHONES

Refer to the schematic diagram for the values of resistors and capacitors.







IC801 : LA1265
IC802 : AN7470
IC803 : LM7001

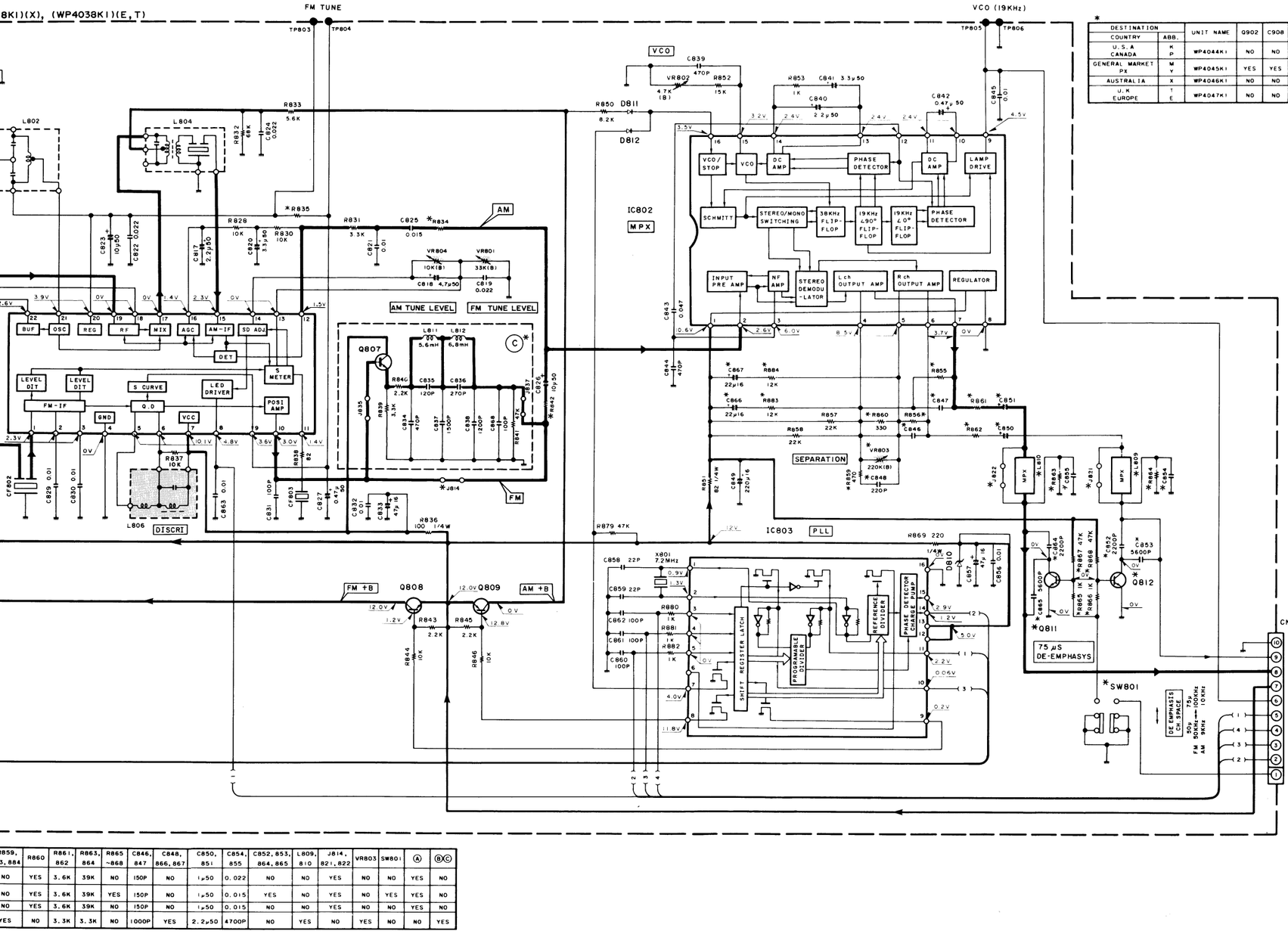
Q801 : 2SC1923
Q803,807,811,812 : 2SC1740S(Q,R)
Q804 : 2SC1845(F,E)
Q808,809 : 2SA933S(Q,R)

D801,802,804,811,812 : 1SS133
D810 : RD5.1ES(B2)

*

DESTINATION		UNIT NAME	Q811, 812	R813	R834	R835	R842	R855, 856	R859, 883, 884	R860	R861, 862	R863, 864	R865 ~868	C846, 847	C848, 866, 867	C850, 851	C854, 855	C852, 853, 864, 865	L809, 810	J814, 821, 822	VR803	SW801	Ⓐ	Ⓑⓒ
COUNTRY	ABB.																							
U.S.A CANADA	K P	WP4013K1	NO	56	36K	15K	39K	51K	NO	YES	3.6K	39K	NO	150P	NO	1μ50	0.022	NO	NO	YES	NO	NO	YES	NO
GENERAL MARKET PX	M Y	WP4015K1	YES	56	36K	39K	39K	51K	NO	YES	3.6K	39K	YES	150P	NO	1μ50	0.015	YES	NO	YES	NO	YES	YES	NO
AUSTRALIA	X	WP4018K1	NO	56	36K	39K	39K	51K	NO	YES	3.6K	39K	NO	150P	NO	1μ50	0.015	NO	NO	YES	NO	NO	YES	NO
U.K EUROPE	T E	WP4038K1	NO	22	47K	39K	47K	47K	YES	NO	3.3K	3.3K	NO	1000P	YES	2.2μ50	4700P	NO	YES	NO	YES	NO	NO	YES

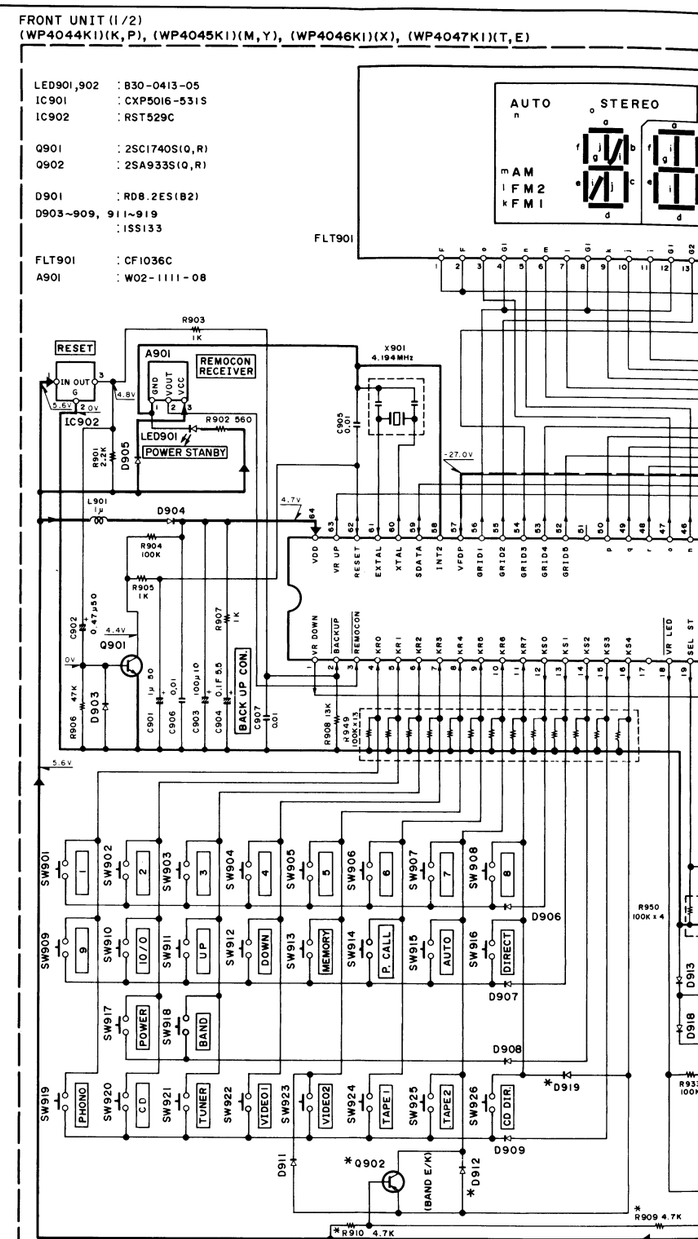
8KI)(X), (WP4038KI)(E, T)



* DESTINATION		UNIT NAME	Q902	C908	D912	D919	R909, 910
COUNTRY	ABB.						
U.S.A. CANADA	K P	WP4044KI	NO	NO	NO	YES	NO
GENERAL MARKET Px	M Y	WP4045KI	YES	YES	NO	NO	YES
AUSTRALIA	X	WP4046KI	NO	NO	YES	NO	NO
U.K EUROPE	T E	WP4047KI	NO	NO	YES	NO	NO

R859, 884	R860	R861, 862	R863, 864	R865 ~868	C846, 847	C848, 866, 867	C850, 851	C854, 855	C852, 853, 864, 865	L809, 810	J814, 821, 822	VR803	SW801	Ⓐ	ⒷⒸ
NO	YES	3.6K	39K	NO	150P	NO	1µ50	0.022	NO	NO	YES	NO	NO	YES	NO
NO	YES	3.6K	39K	YES	150P	NO	1µ50	0.015	YES	NO	YES	NO	YES	YES	NO
NO	YES	3.6K	39K	NO	150P	NO	1µ50	0.015	NO	NO	YES	NO	NO	YES	NO
YES	NO	3.3K	3.3K	NO	1000P	YES	2.2µ50	4700P	NO	YES	NO	YES	NO	NO	YES

FRONT UNIT (1/2)
(WP4044KI)(K, P), (WP4045KI)(M, Y), (WP4046KI)(X), (WP4047KI)(T, E)

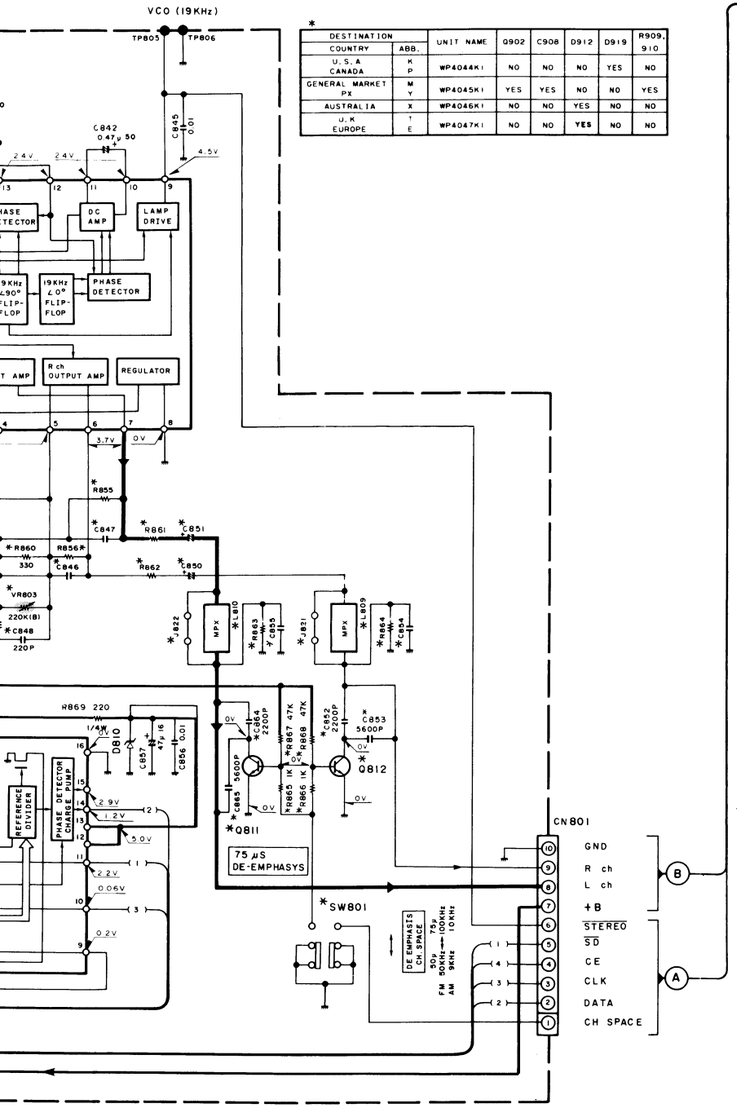


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

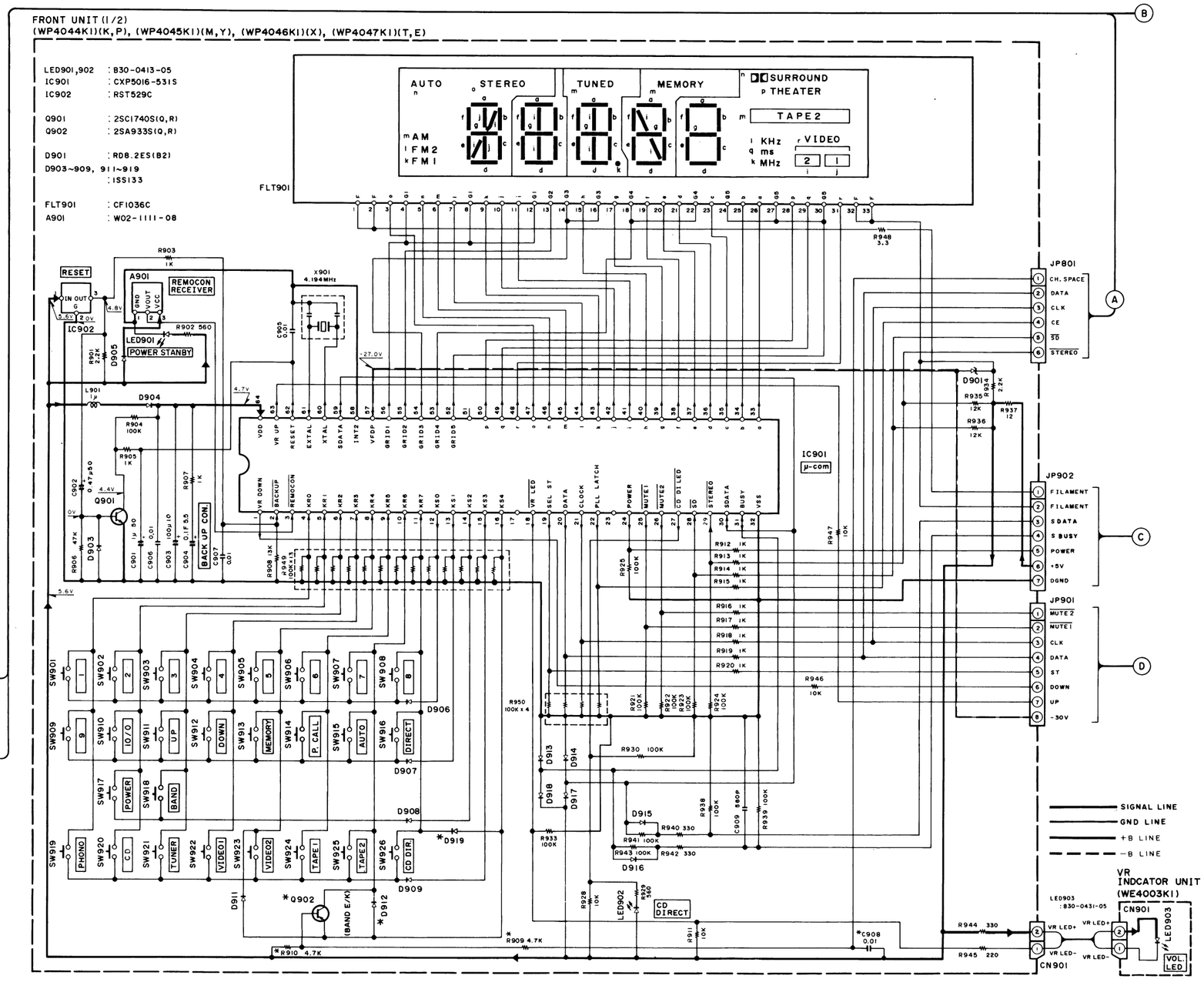
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.



DESTINATION		UNIT NAME	Q902	C908	D912	D919	R909, 910
COUNTRY	ABB.						
U.S.A CANADA	K P	WP4044K1	NO	NO	NO	YES	NO
GENERAL MARKET PX	M Y	WP4045K1	YES	YES	NO	NO	YES
AUSTRALIA	X	WP4046K1	NO	NO	YES	NO	NO
U.K EUROPE	T E	WP4047K1	NO	NO	YES	NO	NO



KR-A5040 (K) (1/2)

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

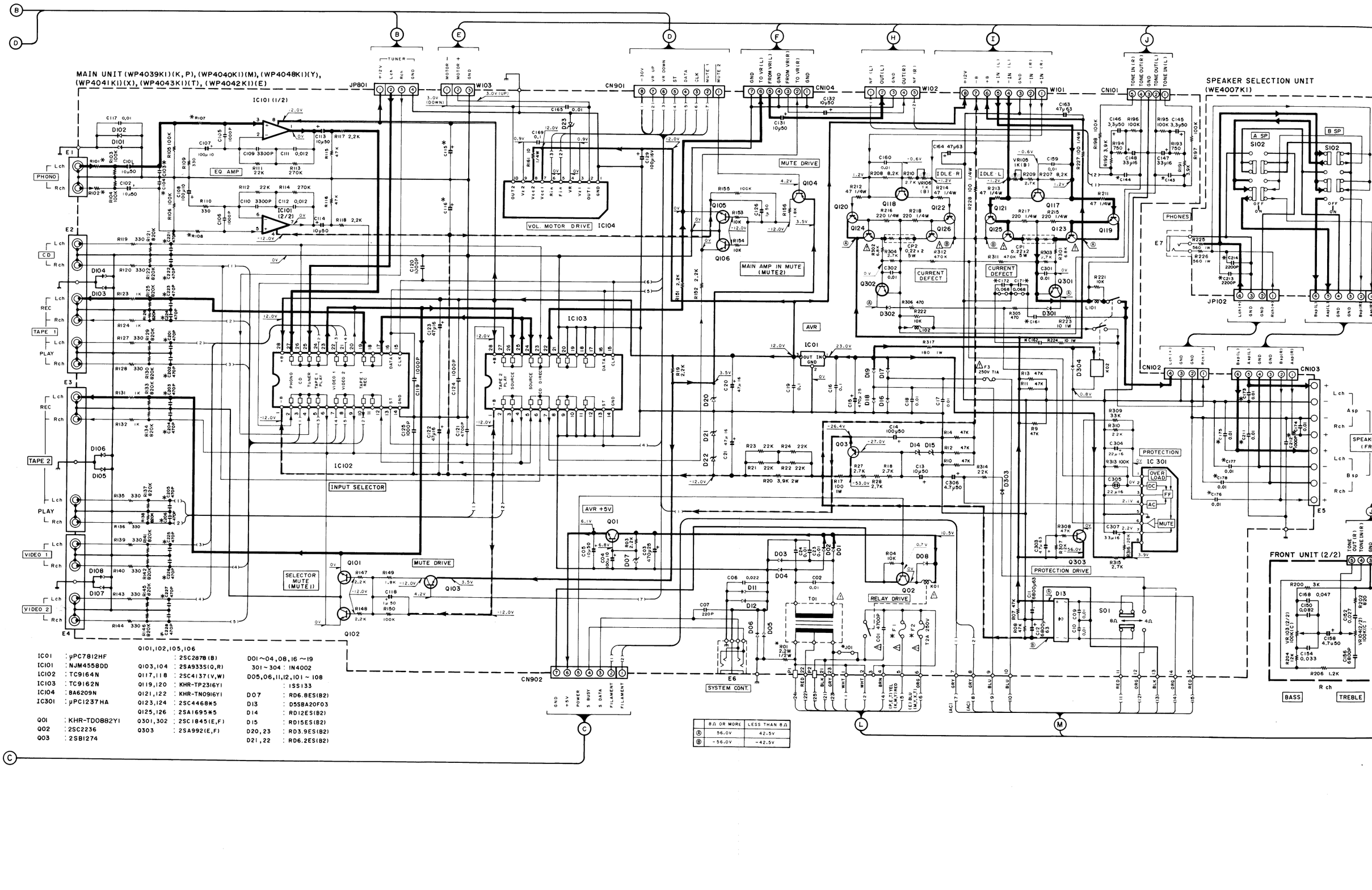
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

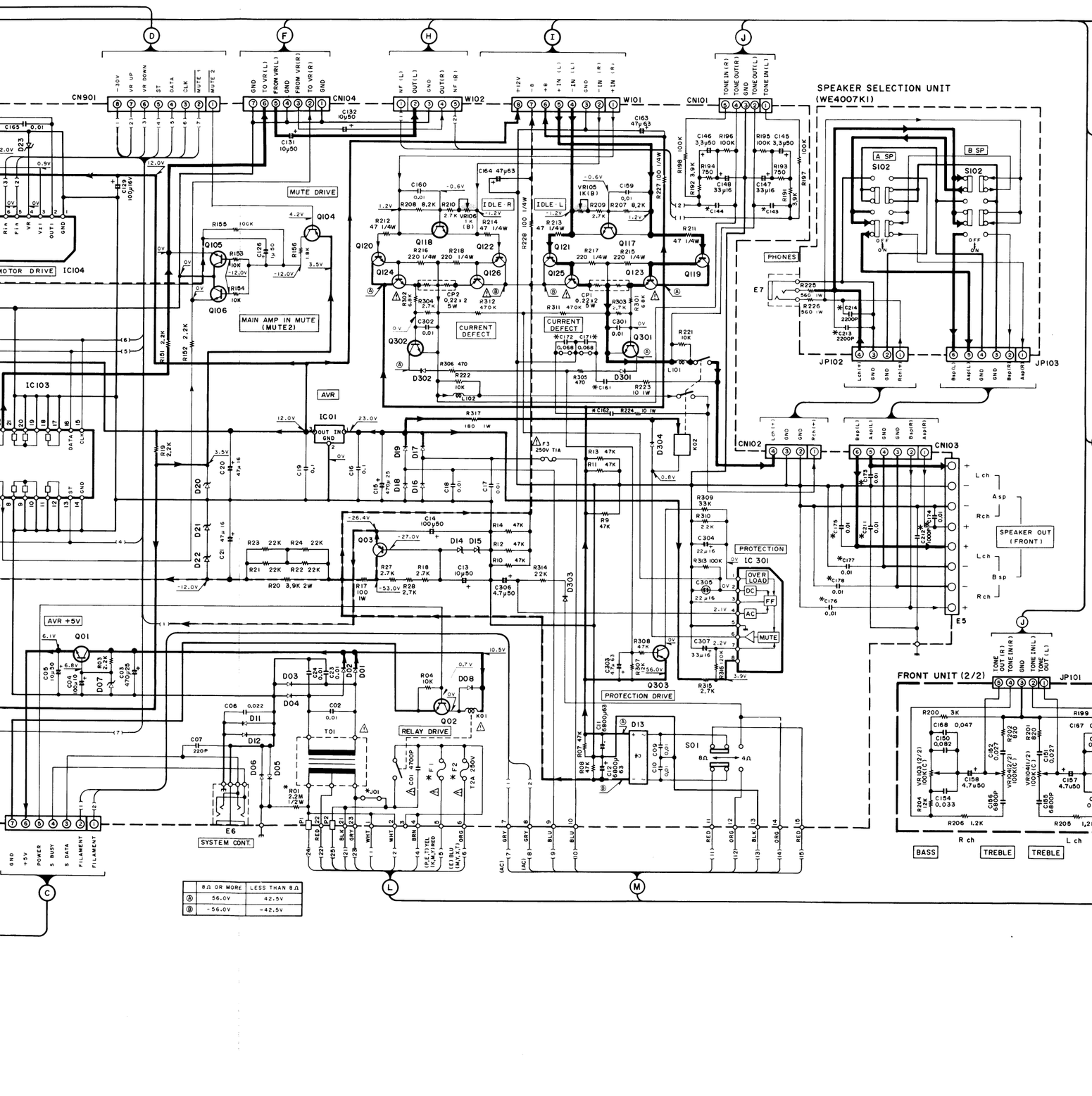
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-2640-10

KR-A5040

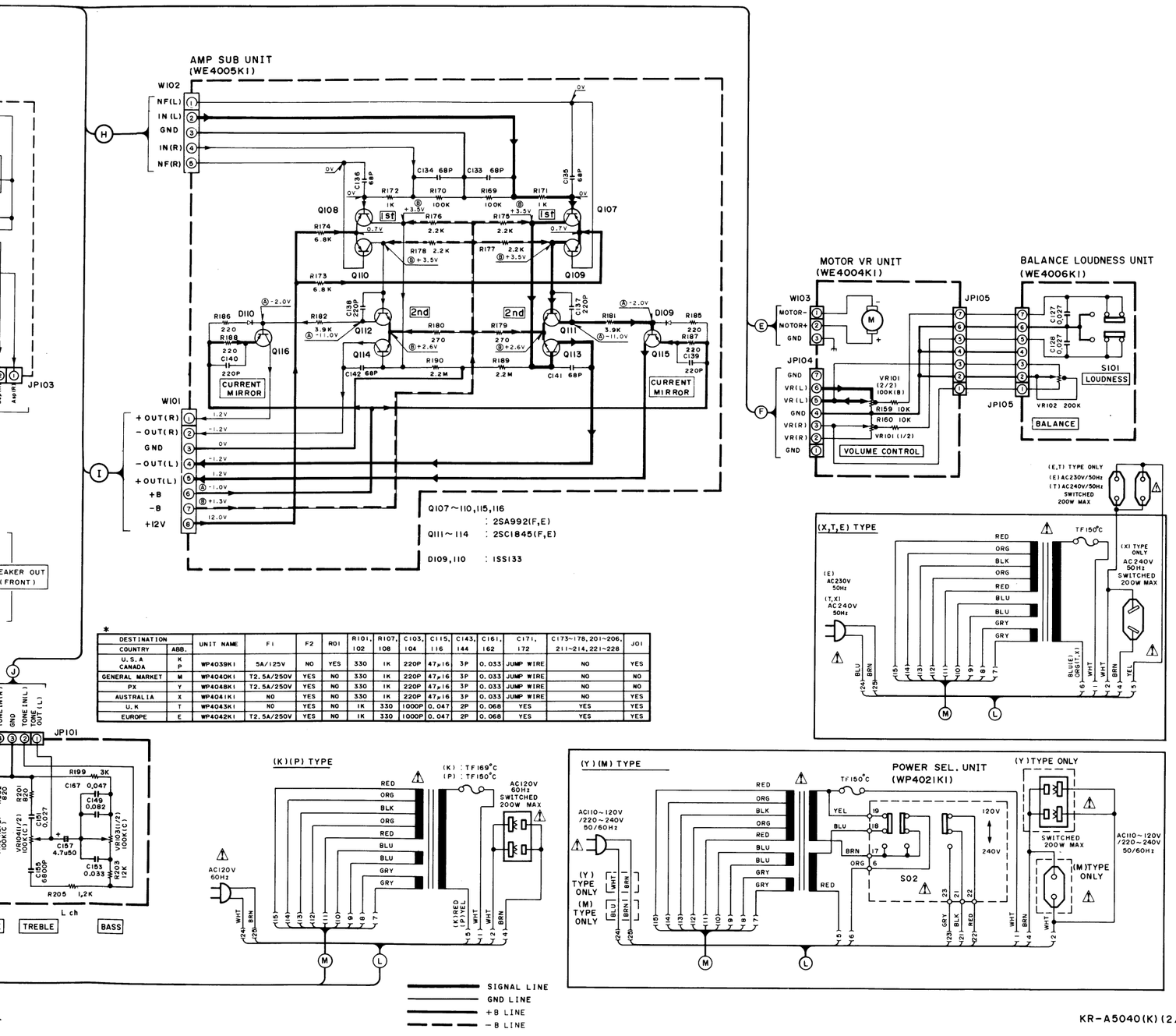
KENWOOD


MAIN UNIT (WP4039KI)(K, P), (WP4040KI)(M), (WP4048KI)(Y), (WP4041KI)(X), (WP4043KI)(T), (WP4042KI)(E)
SPEAKER SELECTION UNIT (WE4007KI)
FRONT UNIT (2/2)
IC101 (1/2)
IC101 (2/2)
IC102
INPUT SELECTOR
IC103
IC104
VOL. MOTOR DRIVE
IC301
PROTECTION
PROTECTION DRIVE
EQ AMP
MUTE DRIVE
MAIN AMP IN MUTE (MUTE2)
SELECTOR MUTE (MUTE1)
AVR
AVR +5V
CURRENT DEFECT
RELAY DRIVE
SYSTEM CONT.
TUNER
PHONO
CD
REC
TAPE 1
PLAY
TAPE 2
VIDEO 1
VIDEO 2
PHONES
BASS
TREBLE
IC01 : μPC7812HF
IC101 : NJM4558DD
IC102 : TC9164N
IC103 : TC9162N
IC104 : BA6209N
IC301 : μPC1237HA
Q01 : KHR-TD0882Y1
Q02 : 2SC2236
Q03 : 2SB1274
Q101,102,105,106 : 2SC2878(B)
Q103,104 : 2SA933S(Q,R)
Q117,118 : 2SC4137(V,W)
Q119,120 : KHR-TP2316Y1
Q121,122 : KHR-TN0916Y1
Q123,124 : 2SC4468*5
Q125,126 : 2SA1695*5
Q301,302 : 2SC1845(E,F)
Q303 : 2SA992(E,F)
D01~04,08,16~19 : ISS133
301~304 : IN4002
D05,06,11,12,101~108 : ISS133
D07 : RD6.8ES(B2)
D13 : D5SBA20F03
D14 : RD12ES(B2)
D15 : RD15ES(B2)
D20,23 : RD3.9ES(B2)
D21,22 : RD6.2ES(B2)
8Ω OR MORE: A 56.0V, B -56.0V
LESS THAN 8Ω: A 42.5V, B -42.5V



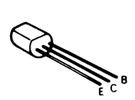
* DESTINATION		UNIT NAME	F1	F2	RO1	R101, 102	R107, 108	C103, 104	C115, 116	C143, 144	C161, 162	C171, 172	C173~178, 201~206, 211~214, 221~228	JO1
COUNTRY	ABB.													
U.S.A CANADA	K P	WP4039K1	5A/125V	NO	YES	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	YES
GENERAL MARKET	M	WP4040K1	T2.5A/250V	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	NO
PX	Y	WP4048K1	T2.5A/250V	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	NO
AUSTRALIA	X	WP4041K1	NO	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	YES
U.K	T	WP4043K1	NO	YES	NO	1K	330	1000P	0.047	2P	0.068	YES	YES	YES
EUROPE	E	WP4042K1	T2.5A/250V	YES	NO	1K	330	1000P	0.047	2P	0.068	YES	YES	YES

	8Ω OR MORE	LESS THAN 8Ω
Ⓐ	56.0V	42.5V
Ⓑ	-56.0V	-42.5V

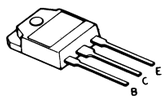


*

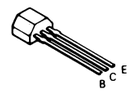
DESTINATION		UNIT NAME	F1	F2	RO1	R101, 102	R107, 108	C103, 104	C115, 116	C143, 144	C161, 162	C171, 172	C173~178, 201~206, 211~214, 221~228	JO1
COUNTRY	ABB.													
U.S.A CANADA	K P	WP4039K1	5A/125V	NO	YES	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	YES
GENERAL MARKET	M	WP4040K1	T2.5A/250V	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	NO
PX	Y	WP4048K1	T2.5A/250V	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	NO
AUSTRALIA	X	WP4041K1	NO	YES	NO	330	1K	220P	47μ/16	3P	0.033	JUMP WIRE	NO	YES
U.K	T	WP4043K1	NO	YES	NO	1K	330	1000P	0.047	2P	0.068	YES	YES	YES
EUROPE	E	WP4042K1	T2.5A/250V	YES	NO	1K	330	1000P	0.047	2P	0.068	YES	YES	YES



2SA992
2SC1845
2SC1923
2SC2236
2SC2878



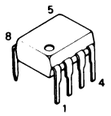
2SA1695∗5
2SC4468∗5



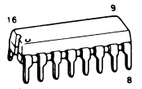
2SA933S
2SC1740S

2SC4137

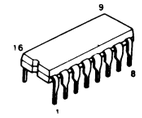
2SB1274



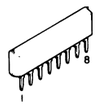
NJM4558DD



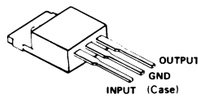
LM7001



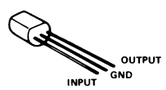
AN7470



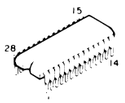
UPC7812HF



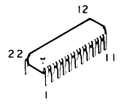
UPC1237HA



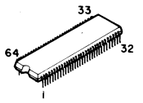
RST529C



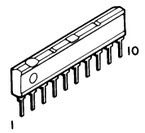
TC9162N
TC9164N



LA1265



CXP5016-531S



BA6209N

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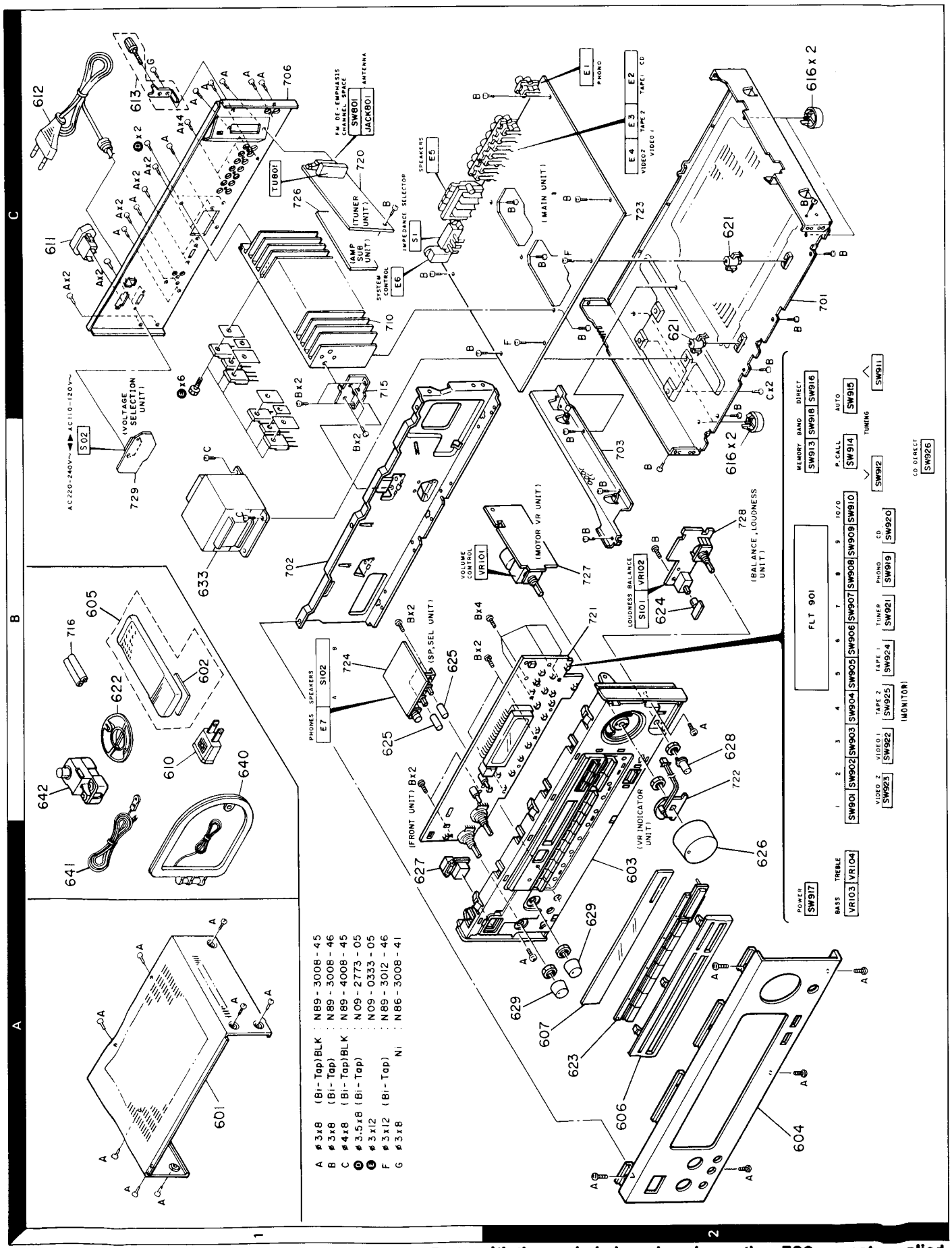
KR-A5040(K)(2/2)

Y05-2640-10

KR-A5040

KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KR-A5040						
601	1A		A01-1975-08	METALLIC CABINET		
602	1B		A09-0104-08	BATTERY COVER		
603	2A	*	A22-1578-08	FRAME FRONT		
604	2A	*	A60-0281-08	PANEL FRONT		
605	1B	*	A70-0908-08	REMOTE CONTROLLER ASSY		
606	2A	*	B07-2215-08	PANEL CENTER		
607	2A	*	B10-1933-08	FRONT GLASS		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	XT	
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-		*	B60-0851-08	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0852-08	INSTRUCTION MANUAL(FRENCH)	PE	
-		*	B60-0853-08	INSTRUCTION MANUAL(G,D,I)	E	
-		*	B60-0854-08	INSTRUCTION MANUAL(S,C)	M	
⚠ 610	1B		E03-0115-05	AC PLUG ADAPTOR	M	
⚠ 611	1C		E03-0120-08	AC OUTLET	ME	
⚠ 611	1C		E03-0123-08	AC OUTLET	KPY	
⚠ 611	1C		E03-0124-08	AC OUTLET	X	
⚠ 611	1C	*	E03-0133-08	AC OUTLET	T	
⚠ 612	1C		E30-0459-05	AC POWER CORD	ME	
⚠ 612	1C		E30-0812-05	AC POWER CORD	Y	
⚠ 612	1C		E30-0974-05	AC POWER CORD	KP	
⚠ 612	1C		E30-1341-05	AC POWER CORD	X	
⚠ 612	1C		E30-1416-05	AC POWER CORD	T	
613	1C		E21-0023-08	TERMINAL GND		
-			H10-5201-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0647-08	PROTECTION BAG		
-		*	H25-0676-08	PROTECTION BAG		
-		*	H50-0391-08	ITEM CARTON CASE	KPYXTE	
-		*	H50-0392-08	ITEM CARTON CASE	M	
616	2B,2C		J02-1066-08	FOOT ASSY	KPYMX	
616	2B,2C	*	J02-1079-08	FOOT ASSY	TE	
621	2C		J19-3431-08	SUPPORTER		
622	1B		J19-2815-04	ANTENNA HOLDER		
623	2A	*	K27-2085-08	KNOB(VIDEO,TAPE,TUNER,PHONO,CD		
624	2B		K27-2034-08	KNOB(LOUDNESS)		
625	1B		K27-2033-08	KNOB(SPEAKERS A,B ON/OFF)		
626	2B		K29-4273-08	KNOB(VOLUME CONTROL)		
627	1A	*	K27-2084-08	KNOB(POWER ON/OFF)		
628	2B	*	K29-4444-08	KNOB(BALANCE)		
629	2A	*	K29-4445-08	KNOB(BASS,TREBLE)		
⚠ 633	1B		L07-0384-08	POWER TRANSFORMER	P	
⚠ 633	1B		L07-0386-08	POWER TRANSFORMER	XT	
⚠ 633	1B		L07-0388-08	POWER TRANSFORMER	K	
⚠ 633	1B		L07-0390-08	POWER TRANSFORMER	YM	
⚠ 633	1B	*	L07-0568-08	POWER TRANSFORMER	E	
A	1A		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	1C		N89-3008-46	BINDING HEAD TAPTITE SCREW		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C	1B		N89-4008-45	BINDING HEAD TAPTITE SCREW		
D	1C		N09-2773-05	SCREW		
E	1C		N09-0333-05	TAPPING SCREW		
F	2C		N89-3012-46	BINDING HEAD TAPTITE SCREW		
G	1C		N86-3008-46	BINDING HEAD TAPTITE SCREW		
640	1B		T90-0184-08	LOOP ANTENNA		
641	1B		T90-0176-05	FM INDOOR ANTENNA		
642	1B		T90-0185-05	ANTENNA ADAPTOR	TE	
TUNER UNIT						
C801			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C802			CE04KW1C470M	ELECTRO 47UF 16WV		
C803			CF92FV1H273J	MF 0.027UF J		
C804			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C805			CE04KW1C470M	ELECTRO 47UF 16WV		
C806,807			CK45FF1H103Z	CERAMIC 0.010UF Z		
C809			CK45FF1H223Z	CERAMIC 0.022UF Z		
C816			CK45FF1H223Z	CERAMIC 0.022UF Z		
C817			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C818			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C819			CK45FF1H223Z	CERAMIC 0.022UF Z		
C820			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C821			CK45FF1H103Z	CERAMIC 0.010UF Z		
C822			CK45FF1H223Z	CERAMIC 0.022UF Z		
C823			CE04KW1H100M	ELECTRO 10UF 50WV		
C824			CK45FF1H223Z	CERAMIC 0.022UF Z		
C825			CF92FV1H153J	MF 0.015UF J		
C826			CE04KW1H100M	ELECTRO 10UF 50WV		
C827			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C828-830			CK45FF1H103Z	CERAMIC 0.010UF Z		
C831			CC45FCH1H101J	CERAMIC 100PF J		
C832			CK45FF1H103Z	CERAMIC 0.010UF Z		
C833			CE04KW1C470M	ELECTRO 47UF 16WV		
C834			CK45FB1H471K	CERAMIC 470PF K	TE	
C835			CC45FSL1H121J	CERAMIC 120PF J	TE	
C836			CC45FSL1H271J	CERAMIC 270PF J	TE	
C837			CF92FV1H152J	MF 1500PF J	TE	
C838			CF92FV1H122J	MF 1200PF J	TE	
C839			CC93FCH1H471J	CERAMIC 470PF J		
C840			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C841			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C842			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C843			CF92FV1H473J	MF 0.047UF J		
C844			CK45FB1H471K	CERAMIC 470PF K		
C845			CK45FF1H103Z	CERAMIC 0.010UF Z		
C846,847			CC45FSL1H151J	CERAMIC 150PF J	KPYMX	
C846,847			CK45FB1H102K	CERAMIC 1000PF K	TE	
C848			CC45FSL1H221J	CERAMIC 220PF J	TE	
C849			CE04KW1C221M	ELECTRO 220UF 16WV		
C850,851			CE04KW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C850,851			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C852			CF92FV1H222J	MF 2200PF J	YM	
C853			CF92FV1H562J	MF 5600PF J	YM	
C854,855			CF92FV1H153J	MF 0.015UF J	YMX	
C854,855			CF92FV1H223J	MF 0.022UF J	KP	

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No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C854,855			CF92FV1H472J	MF 4700PF J	TE	
C856			CK45FF1H103Z	CERAMIC 0.010UF Z		
C857			CE04KW1C470M	ELECTRO 47UF 16WV		
C858,859			CC45FCH1H220J	CERAMIC 22PF J		
C860-862			CC45FCH1H101J	CERAMIC 100PF J		
C863			CK45FF1H103Z	CERAMIC 0.010UF Z		
C864			CF92FV1H222J	MF 2200PF J	YM	
C865			CF92FV1H562J	MF 5600PF J	YM	
C866,867			CE04KW1C220M	ELECTRO 22UF 16WV	TE	
C868			CC45FCH1H101J	CERAMIC 100PF J	TE	
JACK801	1C		E70-0005-08	LOCK TERMINAL BOARD (ANTENNA)	KPYMX	
JACK801	1C	*	E70-0023-08	LOCK TERMINAL BOARD (ANTENNA)	TE	
CF801,802			L72-0531-05	CERAMIC FILTER	KPYMX	
CF801,802		*	L72-0570-08	CERAMIC FILTER	TE	
CF803			L72-0096-05	CERAMIC FILTER		
L801			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L802			L39-0189-05	COMBINATION COIL		
L804			L30-0488-05	AM IFT		
L806			L30-0439-05	FM IFT(DISCRIMINATOR ADJ.)		
L809,810		*	L72-0569-08	LC FILTER	TE	
L811		*	L33-0375-08	SMALL FIXED INDUCTOR(5.6mH)	TE	
L812		*	L33-0376-08	SMALL FIXED INDUCTOR(6.8mH)	TE	
X801			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)		
R806			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R810			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R836			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R851			RD14GB2E820J	FL-PROOF RD 82 J 1/4W		
R869			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
VR801			R12-3166-08	POTENTIOMETER(33K)(FM T-LEVEL)		
VR802			R12-1053-05	POTENTIOMETER(47K)(VCO)		
VR803		*	R12-5079-08	POTENTIOMETER(220K)(SEPARATION	TE	
VR804			R12-3071-05	POTENTIOMETER(10K)(AM T-LEVEL)		
SW801	1C		S62-0012-08	SLIDE SWITCH(DE-EM. CH.SPACE)	YM	
D801,802			1SS133	DIODE		
D804			1SS133	DIODE	TE	
D810			RD5.1ES(B2)	ZENER DIODE		
D811,812			1SS133	DIODE		
IC801			LA1265	IC(FM/AM TUNER)		
IC802			AN7470	IC(FM MPX)		
IC803			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
Q801			2SC1923	TRANSISTOR		
Q803			2SC1740S(Q,R)	TRANSISTOR		
Q804			2SC1845(F,E)	TRANSISTOR		
Q807			2SC1740S(Q,R)	TRANSISTOR	TE	
Q808,809			2SA933S(Q,R)	TRANSISTOR		
Q811,812			2SC1740S(Q,R)	TRANSISTOR	YM	
TU801	1C		W02-1042-05	FM FRONT-END ASSY	KPYMX	
TU801	1C	*	W02-1146-08	FM FRONT-END ASSY	TE	
FRONT UNIT						
LED901			B30-0413-05	LED(POWER STANDBY)		
LED902			B30-0413-05	LED(CD DIRECT)		

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No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C149,150			CF92FV1H823J	MF 0.082UF J		
C151,152			CF92FV1H273J	MF 0.027UF J		
C153,154			CF92FV1H333J	MF 0.033UF J		
C155,156			CF92FV1H682J	MF 6800PF J		
C157,158			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C167,168			CF92FV1H473J	MF 0.047UF J		
C901			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C902			CE04JW1HR47M	ELECTRO 0.47UF 50WV		
C903			CE04KW1A101M	ELECTRO 100UF 10WV		
C904			KHR-PX0001N3	BACKUP 0.1F 5.5WV		
C905-907			CK45FF1H103Z	CERAMIC 0.010UF Z		
C908			CK45FF1H103Z	CERAMIC 0.010UF Z	YM	
C909			CK45FB1H561K	CERAMIC 560PF K		
L901			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X901			L78-0209-05	RESONATOR (4.194MHz)		
R949			R90-0483-05	MULTI-COMP 100KX13 J 1/6W		
R950		*	KHR-RA0031J1	MULTI-COMP 100KX4 J 1/6W		
VR103,104	2A	*	KHR-VR0430G1	POTENTIOMETER(100K)(BASS,TREB)		
SW901-926	2B		KHR-ST0340M1	TACT SWITCH		
D901			RD8.2ES(B2)	ZENER DIODE		
D903-909			1SS133	DIODE		
D911			1SS133	DIODE		
D912			1SS133	DIODE	XTE	
D913-918			1SS133	DIODE		
D919			1SS133	DIODE	KP	
FLT901	2B		CF1036C	FLOURESCENT INDICATOR TUBE		
IC901			CXP5016-531S	IC(4BIT MICROPROCESSOR)		
IC902			RST529C	IC(RESET)		
Q901			2SC1740S(Q,R)	TRANSISTOR		
Q902			2SA933S(Q,R)	TRANSISTOR	YM	
A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
VR INDICATOR UNIT						
LED903			B30-0431-05	LED(VOLUME CONTROL)		
MAIN UNIT						
⚠C01			C91-1441-08	CERAMIC 4700PF		
C02			CK45FF1H103Z	CERAMIC 0.010UF Z		
C03			CE04KW1E471M	ELECTRO 470UF 25WV		
C04			CE04KW1A101M	ELECTRO 100UF 10WV		
C05			CE04KW1H100M	ELECTRO 10UF 50WV		
C06			CK45FF1H223Z	CERAMIC 0.022UF Z		
C07			CC45FCH1H221J	CERAMIC 220PF J		
C09 ,10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11 ,12		*	C90-1965-08	ELECTRO 6800UF 63WV		
C13			CE04KW1H100M	ELECTRO 10UF 50WV		
C14			CE04KW1H101M	ELECTRO 100UF 50WV		
C15			CE04KW1E471M	ELECTRO 470UF 25WV		
C16			CF92FV1H104J	MF 0.10UF J		
C17 ,18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C19			CF92FV1H104J	MF 0.10UF J		
C20 ,21			CE04KW1C470M	ELECTRO 47UF 16WV		
C23 ,24			CK45FF1H103Z	CERAMIC 0.010UF Z		

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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C101,102			CE04KW1H100M	ELECTRO 10UF 50WV		
C103,104			CC45FCH1H221J	CERAMIC 220PF J	KPYMX	
C103,104			CK45FB1H102K	CERAMIC 1000PF K	TE	
C105,106			CK45FB1H102K	CERAMIC 1000PF K		
C107,108			CE04KW1A101M	ELECTRO 100UF 10WV		
C109,110			CF92FV1H332J	MF 3300PF J		
C111,112			CF92FV1H123J	MF 0.012UF J		
C113,114			CE04KW1H100M	ELECTRO 10UF 50WV		
C115,116			CE04KW1C470M	ELECTRO 47UF 16WV	KPYMX	
C115,116			CK45FF1H473Z	CERAMIC 0.047UF Z	TE	
C117			CK45FF1H103Z	CERAMIC 0.010UF Z		
C118			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C119,120			CK45FB1H102K	CERAMIC 1000PF K		
C121			CK45FF1H472Z	CERAMIC 4700PF Z		
C122,123			CE04KW1C470M	ELECTRO 47UF 16WV		
C124,125			CK45FB1H102K	CERAMIC 1000PF K		
C126			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C129			CE04KW1C101M	ELECTRO 100UF 16WV		
C131,132			CE04KW1H100M	ELECTRO 10UF 50WV		
C143,144			CC45FSL1H020C	CERAMIC 2.0PF C	TE	
C143,144			CC45FSL1H030C	CERAMIC 3.0PF C	KPYMX	
C145,146			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C147,148			CE04KW1C330M	ELECTRO 33UF 16WV		
C159,160			CK45FF1H103Z	CERAMIC 0.010UF Z		
C161,162			CF92FV1H333J	MF 0.033UF J	KPYMX	
C161,162			CF92FV1H683J	MF 0.068UF J	TE	
C163,164			CE04KW1J470M	ELECTRO 47UF 63WV		
C165			CK45FF1H103Z	CERAMIC 0.010UF Z		
C169			CF92FV1H104J	MF 0.10UF J		
C171,172			CF92FV1H683J	MF 0.068UF J	TE	
C173-178			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
C201-206			CK45FB1H471K	CERAMIC 470PF K	TE	
C211,212			CK45FB1H102K	CERAMIC 1000PF K	TE	
C221-228			CK45FB1H471K	CERAMIC 470PF K	TE	
C301,302			CK45FF1H103Z	CERAMIC 0.010UF Z		
C303			CE04KW1J4R7M	ELECTRO 4.7UF 63WV		
C304			CE04KW1C220M	ELECTRO 22UF 16WV		
C305			C90-1333-05	NP-ELEC 22UF 10WV		
C306			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C307			CE04KW1C330M	ELECTRO 33UF 16WV		
E1	2C		E13-0249-05	PHONO JACK(2P)(PHONO)		
E2	2C		E13-0633-05	PHONO JACK(6P)(CD,TAPE1)		
E3 ,4	2C		E13-0445-05	PHONO JACK(4P)(TAPE2,VIDEO1/2)		
E5	1C		E70-0004-08	LOCK TERMINAL BOARD(SP.OUT)		
E6	1C		E11-0188-05	MINIATURE PHONE JACK(S.CONTROL		
⚠F1			F04-5022-05	FUSE (125V 5A)	KP	
⚠F1			F05-2525-05	FUSE (250V T2.5A)	ME	
⚠F1			F06-2526-05	FUSE (250V T2.5A)	Y	
⚠F2			F04-2026-05	FUSE (250V T2A)	Y	
⚠F2			F06-2021-05	FUSE (250V T2A)	MXTE	
⚠F3			F04-1026-05	FUSE (250V T1A)	KP	
⚠F3			F04-1027-05	FUSE (250V T1A)	Y	
⚠F3			F06-1022-05	FUSE (250V T1A)	MXTE	
-			J13-0075-05	FUSE CLIP		

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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
L101,102			L39-1303-08	SMALL FIXED INDUCTOR		
*T01			L07-0408-08	POWER TRANSFORMER	KP	
*T01			L07-0409-08	POWER TRANSFORMER	YM	
*T01			L07-0410-08	POWER TRANSFORMER	XT	
*T01		*	L07-0569-08	POWER TRANSFORMER	E	
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R01			R92-0173-05	RC 2.2M M 1/2W	KP	
R17			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R20			RS14KB3D392J	FL-PROOF RS 3.9K J 2W		
R161			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R211-214			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R215-218			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R223,224			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R227,228			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R317			RS14KB3A181J	FL-PROOF RS 180 J 1W		
VR105,106			R12-1066-05	TRIMMING POT(1K)(IDLE CURRENT)		
*K01			S76-0010-08	MAGNETIC RELAY		
K02			S76-0011-08	MAGNETIC RELAY		
S01	1C		S31-2136-05	SLIDE SWITCH(IMPEDANCE SELECT)		
D01 -04			1N4002	DIODE		
D05 ,06			1SS133	DIODE		
D07			RD6.8ES(B2)	ZENER DIODE		
D08			1N4002	DIODE		
D11 ,12			1SS133	DIODE	YM	
⚠D13			D5SBA20F03	DIODE		
D14			RD12ES(B2)	ZENER DIODE		
D15			RD15ES(B2)	ZENER DIODE		
D16 -19			1N4002	DIODE		
D20			RD3.9ES(B2)	ZENER DIODE		
D21 ,22			RD6.2ES(B2)	ZENER DIODE		
D23			RD3.9ES(B2)	ZENER DIODE		
D101-108			1SS133	DIODE		
D301-304			1N4002	DIODE		
IC01			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
IC101			NJM4558DD	IC(OP AMP X2)		
IC102			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC103			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC104			BA6209N	IC(MOTOR DRIVER)		
IC301			UPC1237HA	IC(POWER AMP)		
Q01		*	KHR-TD0882Y1	TRANSISTOR		
Q02			2SC2236	TRANSISTOR		
Q03			2SB1274	TRANSISTOR		
Q101,102			2SC2878(B)	TRANSISTOR		
Q103,104			2SA933S(Q,R)	TRANSISTOR		
Q105,106			2SC2878(B)	TRANSISTOR		
Q117,118			2SC4137(V,W)	TRANSISTOR		
Q119,120		*	KHR-TP2316Y1	TRANSISTOR		
Q121,122		*	KHR-TN0916Y1	TRANSISTOR		
*Q123,124			2SC4468*5	TRANSISTOR		
⚠Q125,126			2SA1695*5	TRANSISTOR		
Q301,302			2SC1845(E,F)	TRANSISTOR		
Q303			2SA992(E,F)	TRANSISTOR		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
SPEAKER SELECTION UNIT						
C213,214			CC45FSL1H221J	CERAMIC 220PF J	TE	
E7	1B		E11-0223-08	PHONE JACK(PHONES)		
R225,226			RS14KB3A561J	FL-PROOF RS 560 J 1W		
S102	1B		S42-2156-05	PUSH SWITCH (SPEAKERS ON/OFF)		
AMP. SUB UNIT						
C133-136			CC45FSL1H680J	CERAMIC 68PF J		
C137-140			CC45FCH1H221J	CERAMIC 220PF J		
C141,142			CC45FSL1H680J	CERAMIC 68PF J		
R179,180			RD14GB2E271J	FL-PROOF RD 270 J 1/4W		
R185-188			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
D109,110			1SS133	DIODE		
Q107-110			2SA992(F,E)	TRANSISTOR		
Q111-114			2SC1845(F,E)	TRANSISTOR		
Q115,116			2SA992(F,E)	TRANSISTOR		
MOTOR VR UNIT						
VR101	2B		R29-5054-08	POTENTIOMETER(100KX2)(VOLUME)		
BALANCE, LOUDNESS UNIT						
C127,128			CF92FV1H273J	MF 0.027UF J		
VR102	2B		R01-5084-08	POTENTIOMETER(200K)(BALANCE)		
S101	2B		S40-2376-08	PUSH SWITCH(LOUDNESS)		
POWER SEL. UNIT						
S02	1B		S31-3010-05	SLIDE SWITCH(VOLTAGE SELECTOR)	M	

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KR-A5040

SPECIFICATIONS

Except for Europe and U.K.

AUDIO SECTION

Rated Power Output
(For the U.S.A. & Canada)

80 watts per channel minimum RMS, both channel driven at 8 Ω, from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion. (FTC)

(For other than the U.S.A. & Canada)
(IHF '66) From 20 Hz to 20 kHz, 0.09% T.H.D., at 8 Ω ..... 80 W + 80W
Total Harmonic Distortion
..... 0.09% (20 Hz ~ 20 kHz, 180 W, 8 Ω)
Input Sensitivity/Impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD, TAPE, VIDEO ..... 200 mV/47 kΩ
Frequency Response
CD ..... 10 Hz ~ 50 kHz + 0 dB, − 3 dB
Signal to Noise Ratio (IHF-A)
PHONO (MM) ..... 77 dB for 6 mV input
CD, TAPE, VIDEO ..... 100 dB for 200 mV input
Tone Controls
BASS ..... ± 10 dB (at 100 Hz)
TREBLE ..... ± 10 dB (at 10 kHz)

FM TUNER SECTION

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz
Antenna Impedance ... 300 Ω balanced & 75 Ω unbalanced
Sensitivity (IHF) ..... 10.8 dBf (0.95 μV at 75 Ω)
50 dB Quieting Sensitivity
MONO ..... 16.2 dBf (3.5 μV at 75 Ω)
STEREO ..... 38.2 dBf (45 μV at 75 Ω)
Signal to Noise Ratio at 65 dBf (IHF)
MONO ..... 79 dB
STEREO ..... 73 dB
Total Harmonic Distortion at 1,000 Hz (IHF)
MONO 0.3%
STEREO 0.5%
Stereo Separation (IHF at 1 kHz) ..... 45 dB
Frequency Response ... 30 Hz ~ 15 kHz + 0.5 dB, − 2.0 dB

AM TUNER SECTION

Tuning Frequency Range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz ..... 530 kHz ~ 1,610 kHz
(The U.S.A. and Canada) ..... 530 kHz ~ 1,700 kHz
Usable Sensitivity ..... 12 μV (400 μV/m)
Signal to Noise Ratio ..... 50 dB
Total Harmonic Distortion 0.5%
Selectivity ..... 23 dB

GENERAL

Power Consumption ... 2.2 A (The U.S.A. and Canada Models)
190 W (IEC) (Others)
Dimensions ..... 440 (W) × 129 (H) × 334 (D) mm
(17-5/16") × (5-1/16") × (13-1/8")
Weight (Net) ..... 8.5 kg (18.7 lb)

Note:
KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

For Europe and U.K.

AUDIO SECTION

Rated power output
(IEC) from 63 Hz to 12,500 Hz
0.7% T.H.D. at 8 Ω ..... 80 W + 80 W
(DIN) 1,000 Hz at 8 Ω ..... 80 W + 80 W
at 4 Ω ..... 80 W + 80 W
Total Harmonic Distortion
..... 0.05% (40 Hz ~ 20 kHz, 40 W, 8 Ω)
Input Sensitivity/Impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD, TAPE, VIDEO ..... 200 mV/47 kΩ
Frequency Response
CD ..... 10 Hz ~ 50 kHz + 0 dB, − 3 dB
Signal to Noise Ratio (DIN weighted, at 50 mW output)
PHONO (MM) ..... 56 dB
CD, TAPE, VIDEO ..... 57 dB
Tone Controls
BASS ..... ± 10 dB (at 100 Hz)
TREBLE ..... ± 10 dB (at 10 kHz)

FM TUNER SECTION

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz
Antenna Impedance ..... 75 Ω unbalanced
Sensitivity (DIN)
(MONO) ..... 1.1 μV
(STEREO) ..... 40 μV
Total Harmonic Distortion
(DIN at 1 kHz, 65.2 dBf input)
MONO 0.3%
STEREO 0.4%
Signal to Noise Ratio (DIN weighted at 1 kHz, 65.2 dBf input)
MONO ..... 68 dB
STEREO ..... 61 dB
Stereo Separation (DIN at 1 kHz) ..... 40 dB
Frequency Response ... 30 Hz ~ 15 kHz + 0.5 dB, − 2.0 dB

AM TUNER SECTION

Tuning Frequency Range ..... 531 kHz ~ 1,602 kHz
Usable Sensitivity ..... 12 μV (400 μV/m)
Signal to Noise Ratio ..... 50 dB
Total Harmonic Distortion 0.5%
Selectivity ..... 22 dB

GENERAL

Power Consumption ..... 190 W
Dimensions ..... 440 (W) × 129 (H) × 334 (D) mm
Weight (Net) ..... 8.5 kg

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